

Service Manual

Radio
RF-6300LBS

Supplement-1

FM-LW-MW-SW Multi-Band Receiver
with Phase-Locked-Loop Synthesizer

Main change.

* Change of Circuit Board.

How to Distinguish the model between RF-6300LBS and RF-6300LBS supplement-1.

* The suffix is changed from A to C.



 **Panasonic**

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka, Japan

SPECIFICATIONS

LW/MW/SW1

Frequency Range:	LW 150~410kHz (2000~732 m)
	MW 520~1610kHz (577~186 m)
Type:	SW1 1.6~3.9 MHz (187~76.9 m)
IF:	Single Superheterodyne with
Sensitivity:	Phase-Locked-Loop Synthesizer 455 kHz
	S/N 6dB S/N 26 dB
	LW 70 μ V/m 600 μ V/m
	MW 30 μ V/m 400 μ V/m
	SW1 30 μ V/m 400 μ V/m
	(Modulation 400Hz, 30% for 50mW)
Selectivity:	WIDE \pm 2.5kHz (-6dB) \pm 15kHz (-60dB)
	NARROW \pm 1.7kHz (-6dB) \pm 6kHz (-60dB)
Image Interference Ratio:	LW 45 dB (at 280 kHz) MW 40 dB (at 1000 kHz) SW1 50 dB (at 2.8 MHz)

SW2~5

Frequency Range:	SW2 3.9~7.0 MHz (76.9~42.9 m)
	SW3 7.0~12.0 MHz (42.9~25 m)
Type:	SW4 12.0~20.0 MHz (25~15 m)
IF:	SW5 20.0~30.0 MHz (15~10 m)
Sensitivity:	Double Superheterodyne with Phase-Locked-Loop Synthesizer
	1 st IF 2.6 MHz
	2nd IF 455 kHz
	S/N 6 dB S/N 26 dB
	SW2 1.2 μ V 12 μ V
	SW3 0.8 μ V 8 μ V
	SW4 1.0 μ V 10 μ V
	SW5 1.0 μ V 10 μ V
	(Modulation 400 Hz, 30% for 50 mW)
Selectivity:	WIDE \pm 2.5 kHz (-6 dB) \pm 15 kHz (-60dB)
	NARROW \pm 1.7 kHz (-6 dB) \pm 6 kHz (-60dB)
Image Interference Ratio:	SW2 65 dB (at 5.5 MHz) SW3 60 dB (at 9.5 MHz) SW4 55 dB (at 16 MHz) SW5 45 dB (at 25 MHz)

FM

Frequency Range:	87.5~108 MHz
Type:	Single Superheterodyne with
IF:	Phase-Locked-Loop Synthesizer
Sensitivity:	10.7 MHz
Two-Signal Selectivity:	2 μ V/75 Ω (-3 dB, Limit. Sens.)
Image Interference Ratio:	2.5 μ V/75 Ω (S/N 26 dB)
	70 dB (\pm 400 kHz)
	50 dB (at 98 MHz)

Frequency Display

Display Type:	7-Segment Fluorescent Tube
Precision:	Direct Readout to 1 kHz for AM Direct Readout to 10 kHz for FM

Number of Figures:

5 digits

Frequency Stability:

Within 100 Hz during any 60 minutes
after warm-up

Tuning

Type:	Click-Stop, Rotary Encoder
Tuning Speed Ratio:	Digital Tuning Fast:Slow = 10:1

Preset Memory

Number of Preset:	12-Station Preset
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Clock

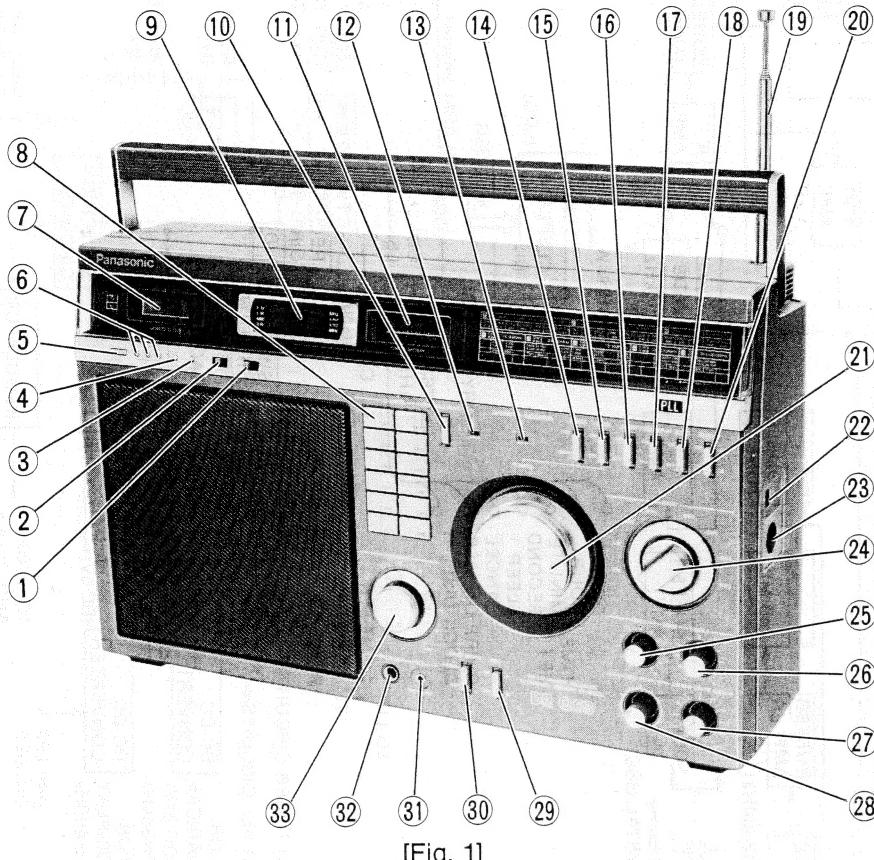
Type:	LCD Quartz Clock
Function:	Real-Time (Hour, Minute, Second)
	Display Alarm Time (Hour Minute)
	Display
Precision:	Doze
	Sleep
	Wake-up to Radio or Chirp Alarm
	Sleep/Alarm Cancel
	Monthly Difference \pm 15 seconds. (16°C temperature, 50% humidity)

General Specifications

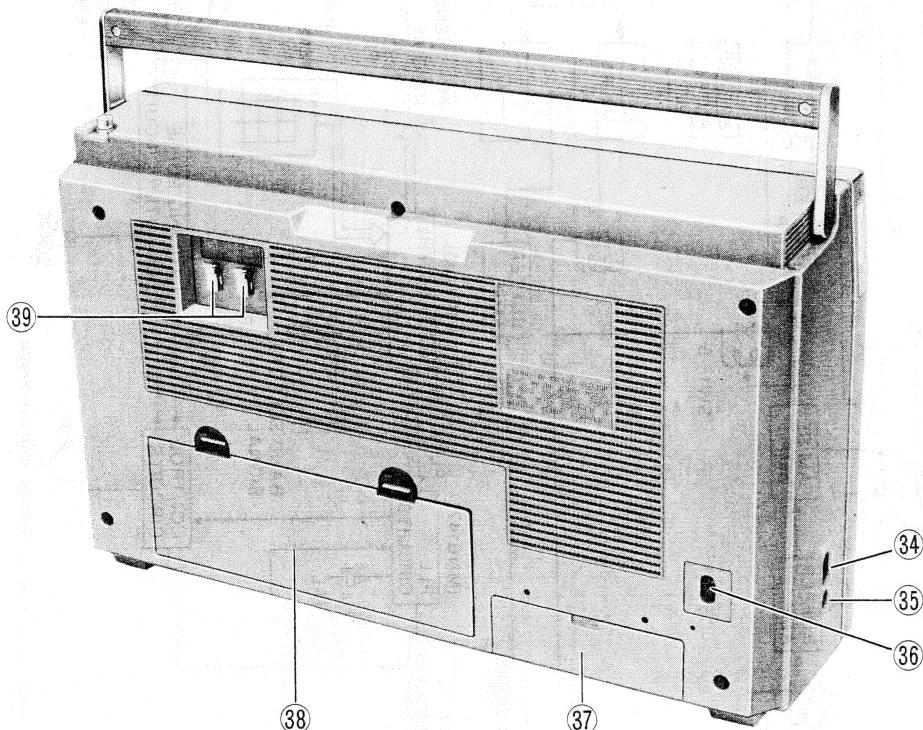
Semi-conductors:	IC 17
	Transistor 87
	FET 8
Output Power:	4 W (DC; MAX.)
	4W (AC, MPO)
Speaker:	12cm (8 Ω)
Power Source:	AC 110~125/220~240V, 50/60 Hz
	DC 9V (6 x UM-1, "D")
	6V (4 x UM-3, "AA") ... Back-up for Memory & Clock
	DC in 9V
Power Consumption:	15 W
Jacks:	Earphone/External Speaker (3.5 ϕ)
	Headphones (6 ϕ)
	Rec out/Phono (DIN Type)
AC in	
DC in	
Antennas:	FM/SW Whip Antenna 1010 mm
	LW/MW Ferrite Core Antenna 10 ϕ x 180 mm
	SW1 Ferrite Core Antenna 10 ϕ x 100 mm
Dimensions (W x H x D):	FM/LW/MW/SW External Antenna (one-touch)
	435 x 281 x 131 mm (17-1/8 x 11-1/16 x 5-3/16)
Weight:	5.2 kg (11 lb. 7.4 oz) without batteries

Specifications subject to change without notice.

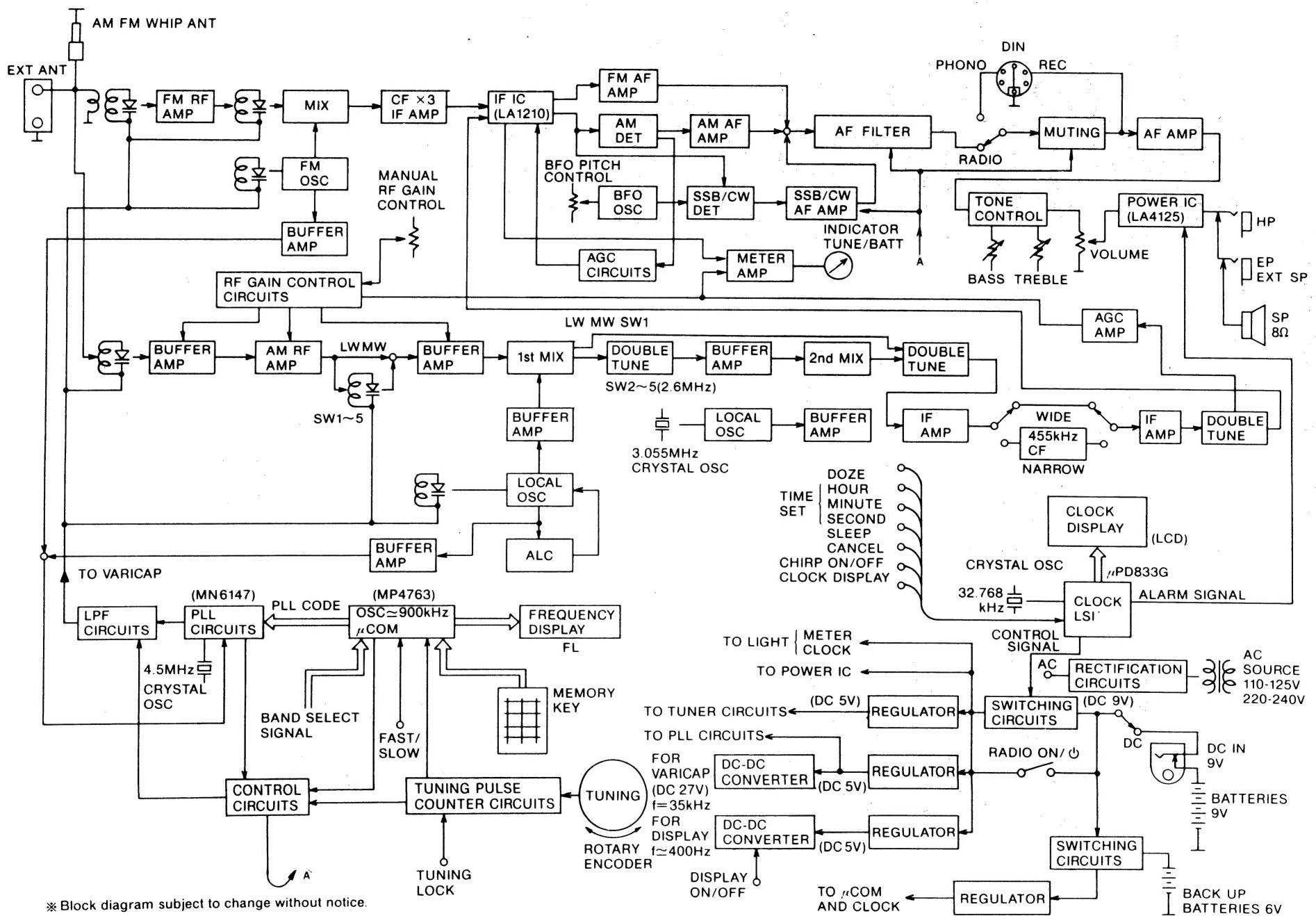
LOCATION OF CONTROLS



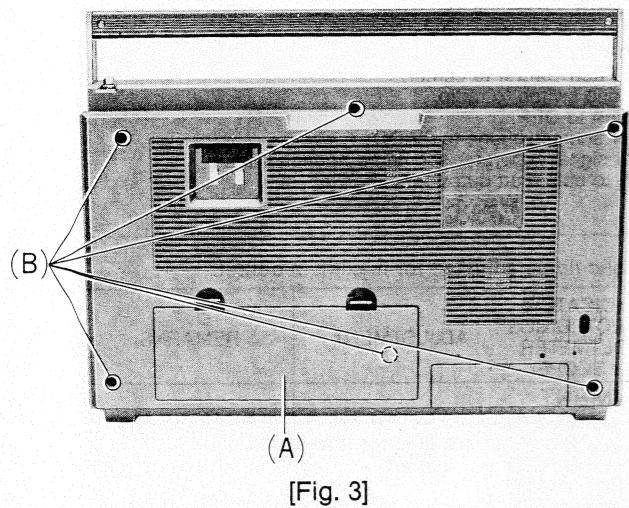
- ① Clock Display Selector (Time/Sec/Alarm)
- ② Chirp Switch
- ③ Sleep/Alarm Cancel Button
- ④ Sleep Set Button
- ⑤ Doze Button
- ⑥ Time Set Button (H/M/S)
- ⑦ Clock Display
- ⑧ Preset Channel Button
- ⑨ Digital Frequency Display
- ⑩ Cancel/Memory Button
- ⑪ Tuning/Battery Meter
- ⑫ Memory Indicator
- ⑬ Operation Indicator
- ⑭ Tuning Speed Selector (Fast/Slow)
- ⑮ Tuning Lock Switch
- ⑯ Light Switch
- ⑰ Digital Frequency Display Switch
- ⑱ Auto Switch
- ⑲ Telescopic Antenna
- ⑳ Radio Switch
- ㉑ Tuning Control
- ㉒ Radio/Phone Selector
- ㉓ DIN Connector Jack
- ㉔ Band Selector (FM/LW/MW/SW₁/SW₂/SW₃/SW₄/SW₅)
- ㉕ Bass Control
- ㉖ Treble Control
- ㉗ LW/MW/SW RF Gain Control
- ㉘ BFO Pitch Control
- ㉙ BFO On/Off Switch
- ㉚ Band Width Selector (Narrow/Wide)
- ㉛ Earphone/External Speaker Jack (Imp 8Ω only)
- ㉜ Headphones Jack
- ㉝ Volume Control
- ㉞ AC Socket
- ㉞ DC IN Jack
- ㉞ AC Voltage Selector
- ㉞ Clock/Memory Back-up Battery Compartment
- ㉞ Main Battery Compartment
- ㉞ External Antenna Terminal



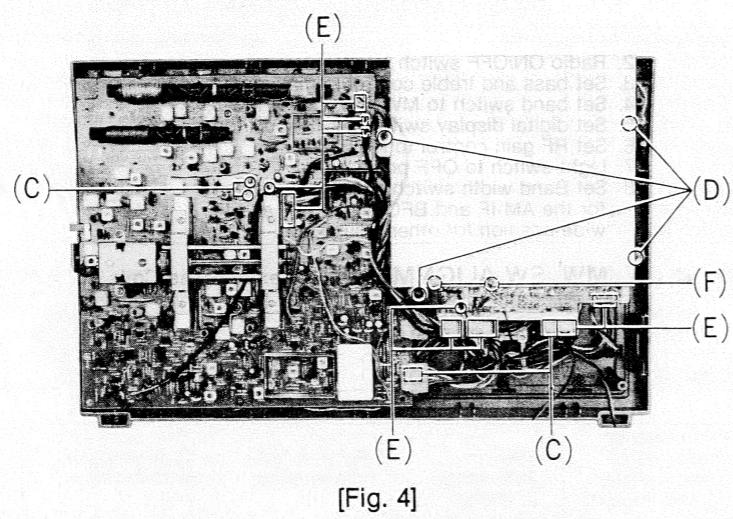
BLOCK DIAGRAM



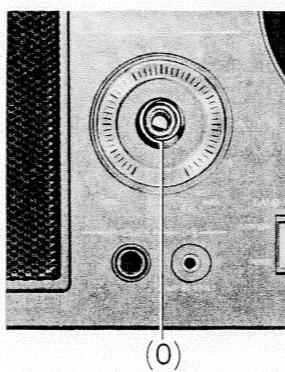
DISASSEMBLY INSTRUCTIONS



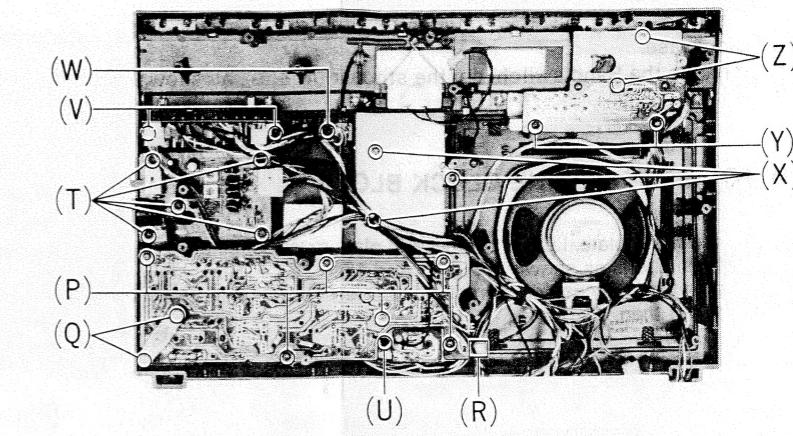
[Fig. 3]



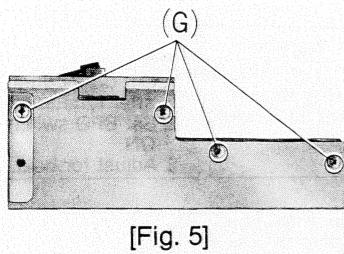
[Fig. 4]



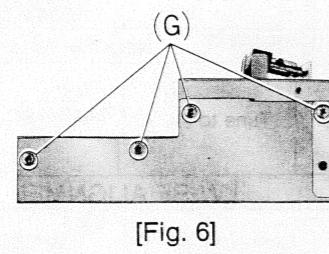
[Fig. 13]



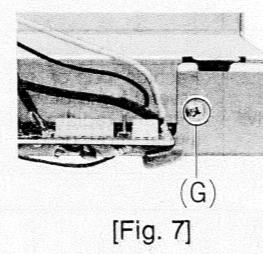
[Fig. 14]



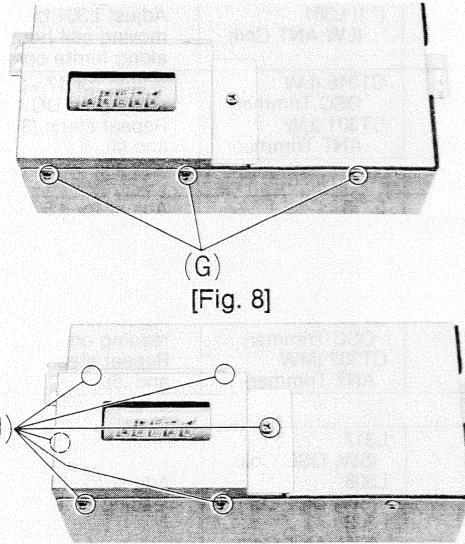
[Fig. 5]



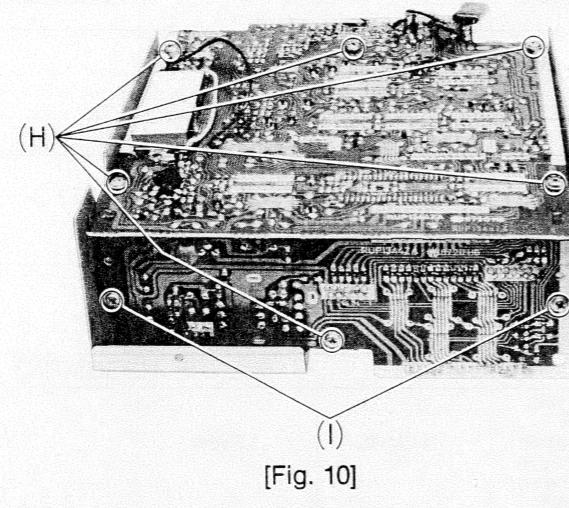
[Fig. 6]



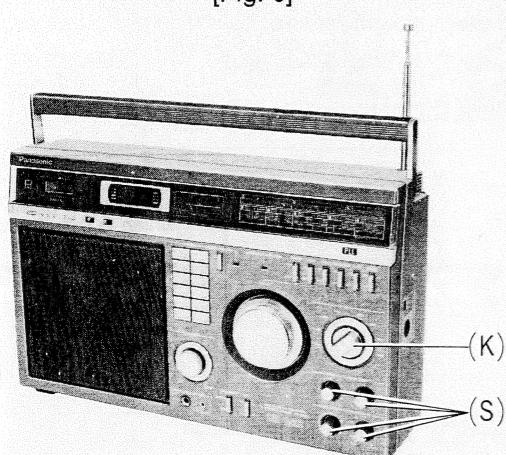
[Fig. 7]



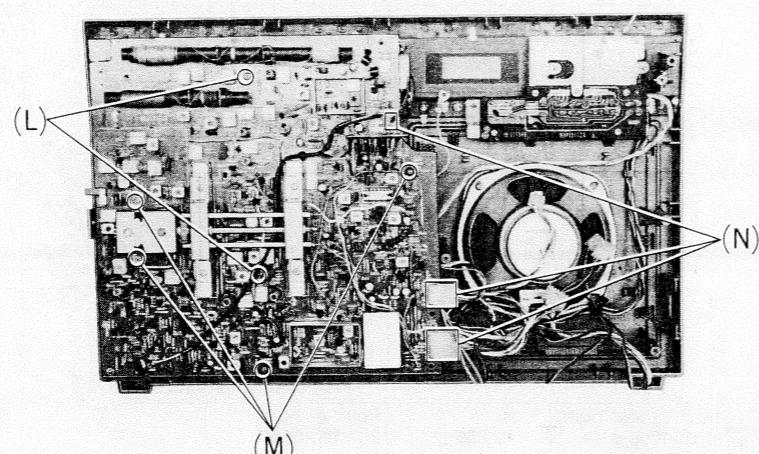
[Fig. 8]



[Fig. 10]



[Fig. 11]



[Fig. 12]

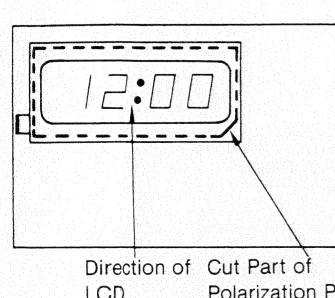
Procedure	To remove —.	Remove —.	Shown in Fig. —.
1		Battery cover	(A) x 1
2	Rear Cabinet Ass'y	Screw (3 x 35)	(B) x 6
3		Cocket (CS16, CS10, TM101, TM102)	(C) x 4
4		Red Screw (3 x 12)	(D) x 4
5	PLL Block	Socket (CS 18, 17, 15, 14, 7, 3, TM1, TM7, TM103, 104)	(E) x 10
6		Unsolder	(F) x 2
7	PLL Circuit Board	Screw (3 x 6)	(G) x 12
8	(3.4 UP)	Screw (3 x 6)	(H) x 6
9		Screw (3 x 6)	(I) x 2
10	Frequency Counter	Screw (3 x 6)	(J) x 6
11		Band Knob	(K) x 1
12	Tuner Circuit Board	Red screw (3 x 12)	(L) x 2
13	(IUP)	Red screw (3 x 12)	(M) x 4
14		Socket (CS2, 5, 6)	(N) x 3
15		Volume knob & Nut	(O) x 1
16	Control Circuit Board	Red screw (3 x 12)	(P) x 6
17	(2UPa)	Screw (3 x 35)	(Q) x 2
18		Socket (CS8)	(R) x 1
19		Knob	(S) x 4
20	DIN Jack Circuit Board (7 UP)	Screw (3 x 12)	(T) x 5
21	Headphone Jack Circuit Board (2 UPe)	Screw (3 x 12)	(U) x 1
22	Switch Circuit Board (2UPb)	Screw (3 x 12)	(V) x 2
23	LED Circuit Board (2UPd)	Screw (3 x 12)	(W) x 1
24	Channel/Memory Circuit Board (2UPc)	Screw (3 x 12)	(X) x 3
25	Clock/Clock Adjust	Screw (3 x 6)	(Y) x 2
26	Circuit Board (6UP)	Screw (2.3 x 8)	(Z) x 2

■ HOW TO ASSEMBLE THE BAND SWITCH ASS'Y

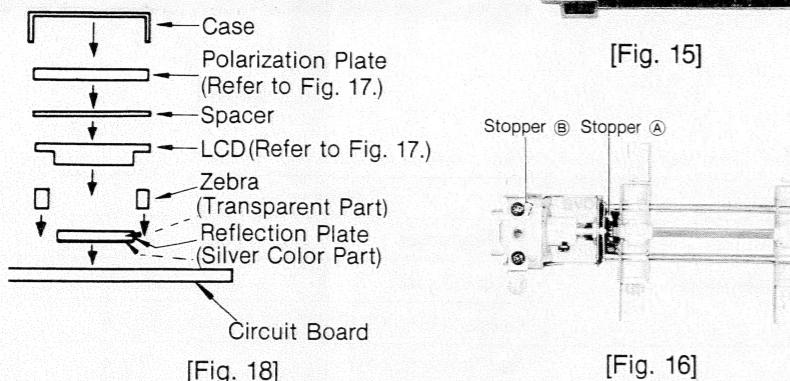
1. When fix the Band switch Ass'y, set the switch Lever in the direction of arrow as shown in Fig. 15, and set Band switch rotate switch shaft counter-clockwise.
2. When assemble the Band switch, set the stopper Ⓐ & Ⓑ, as shown in Fig. 16.

■ HOW TO ASSEMBLY THE CLOCK BLOCK

1. Note that polarization plate, LCD and reflection plate must be installed under the specified conditions as shown in Fig. 17 and 18.
2. Before replacing with new polarization plate, LCD and reflection plate remove the sheet cover of then.

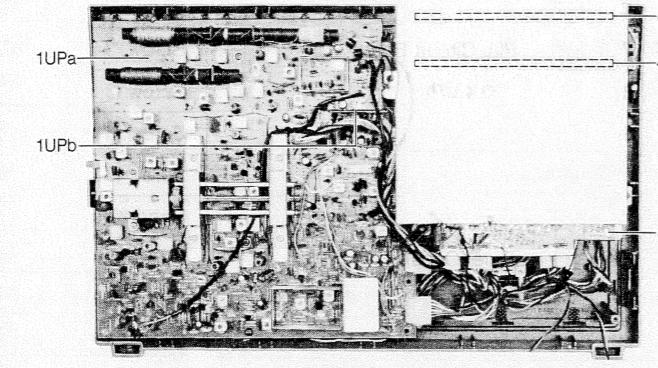


[Fig. 17]

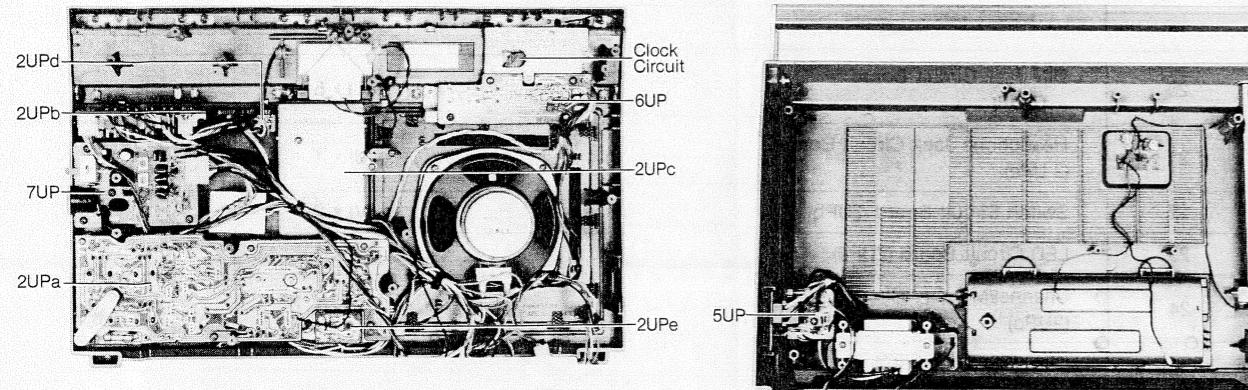


[Fig. 16]

1UPa	Tuner Circuit Board
1UPb	Meter Circuit Board
2UPa	AF Circuit Board
2UPb	Switch Circuit Board
2UPc	Key Board Circuit Board
2UPd	LED Circuit Board
2UPe	Headphone Jack Circuit Board
3UPa	Control Circuit Board
3UPb	Frequency Display Circuit Board
4UP	PLL Circuit Board
5UP	Power Circuit Board
6UP	Switch Circuit Board (Clock)
7UP	DIN Jack & Filter Circuit Board



[Fig. 19]



[Fig. 20]

[Fig. 21]

ALIGNMENTS

■ ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Radio ON/OFF switch to ON.
3. Set bass and treble control to maximum.
4. Set band switch to MW, LW, SW or FM.
5. Set digital display switch to OFF position.
6. Set RF gain control to Maximum.
7. Light switch to OFF position.
8. Set Band width switch to narrow position for the AM-IF and BFO adjustment, and to wide position for other adjustment.
9. Set BFO switch to ON position for BFO adjustment, and to OFF position for other adjustment.
10. Set BFO Pitch control to center.
11. Radio/Phono switch to radio.
12. Auto switch to OFF.
13. Set power source voltage to 9V DC.
14. Output of signal generator should be no higher than necessary to obtain an output reading.

■ LW, MW, SW ALIGNMENT Note: Antenna Coils and Trimmers should be adjusted for maximum output.

BAND	SIGNAL GENERATOR OR SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
AM-2nd IF ALIGNMENT						
(1) MW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	455kHz 30% Mode. at 400Hz	Point of non-interference.	Output meter across voice coil. T203 (AM 1st IFT) T207 (AM 2nd IFT) T208 (AM 3rd IFT) T201 (AM 4th IFT) T202 (AM 5th IFT) T103 (AM 6th IFT)		Adjust for maximum output.
BFO ALIGNMENT Note: Set band width switch to "Narrow".						
(2) MW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	1000kHz	Tune to signal.	Audio output from speaker. L203 (BFO OSC Coil)	1. Cut off modulation after tune to signal. 2. Set BFO switch to ON. 3. Adjust for beat.	
LW-RF ALIGNMENT						
(3) LW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	150kHz	150kHz	Connect DC VTVM between ∇ and ∇ . L314 (LW OSC Coil) (*) L301 (LW ANT Coil)	Adjust for 1.5 ± 0.1 V reading on DC VTVM. Adjust L301 by moving coil bobbin along ferrite core.	
(4) LW	"	400kHz	400kHz	" CT316 (LW OSC Trimmer) CT301 (LW ANT Trimmer)	Adjust for 17 ± 0.3 V reading on DC VTVM. Repeat steps (3) and (4).	
MW-RF ALIGNMENT						
(5) MW	"	550kHz	550kHz	" L316 (MW OSC Coil) (*) L301 (MW ANT Coil)	Adjust for 1.5 ± 0.1 V reading on DC VTVM. Adjust L301 by moving coil bobbin along ferrite core.	
(6) MW	"	1500kHz	1500kHz	" CT317 (MW OSC Trimmer) CT302 (MW ANT Trimmer)	Adjust for 17.5 ± 0.2 V reading on DC VTVM. Repeat steps (5) and (6).	
SW ₁ -RF ALIGNMENT						
(7) SW ₁	Connect to test point ∇^{101} through ceramic capacitor (10pF). Negative side to test point ∇^{102} .	1.6MHz	1.6MHz	" L317 (SW ₁ OSC Coil) L308 (SW ₁ DET Coil) L303 (SW ₁ ANT Coil)	Adjust for 1.5 ± 0.1 V reading on DC VTVM.	
(8) SW ₁	"	3.9MHz	3.9MHz	" CT318 (SW ₁ OSC Trimmer) CT309 (SW ₁ DET Trimmer) CT303 (SW ₁ ANT Trimmer)	Adjust for 17 ± 0.3 V reading on DC VTVM. Repeat steps (7) and (8).	
(*) Cement antenna bobbin with wax after completing alignment.						
SW 1st LOCAL ALIGNMENT						
(9) SW ₂	—	—	Point of non-interference.	• Connect RF VTVM between ∇ and ∇ . • Connect Frequency Counter between ∇ and ∇ . L204 (SW 1st OSC Coil)	L204 (SW 1st OSC Coil)	• Adjust L204 to a point which is $0.2 \sim 0.3$ dB below the value at which the peak value was shown on the RF Voltmeter. • Adjust L204 for 3.055MHz reading on Frequency Counter.
AM-1st IF ALIGNMENT						
(10) SW ₂	Connect to test point ∇^{101} . Negative side to test Point ∇^{102} .	2.6MHz	Point of non-interference.	" T204 (AM 1st IFT) T206 (AM 1st IFT)	Adjust for maximum output.	

SW₂-RF ALIGNMENT

(11)	SW ₂	Connect to test point ₁₀₁ through ceramic capacitor (18PF). Negative side to test point ₁₀₂	3.9MHz	3.9MHz	Connect DC VTVM between ₇ and _E	L318 (SW ₂ OSC Coil) L309 (SW ₂ DET Coil) L304 (SW ₂ ANT Coil)	Adjust for 3±0.1V reading on DC VTVM.
(12)	SW ₂	"	7MHz	7MHz	"	CT319 (SW ₂ OSC Trimmer) CT311 (SW ₂ DET Trimmer) CT304 (SW ₂ ANT Trimmer)	Adjust for 17±0.3V reading on DC VTVM. Repeat steps (11) and (12).
SW₃-RF ALIGNMENT							
(13)	SW ₃	"	7MHz	7MHz	"	L319 (SW ₃ OSC Coil) L311 (SW ₃ DET Coil) L305 (SW ₃ ANT Coil)	Adjust for 3±0.1V reading on DC VTVM.
(14)	SW ₃	"	12MHz	12MHz	"	CT321 (SW ₃ OSC Trimmer) CT312 (SW ₃ DET Trimmer) CT306 (SW ₃ ANT Trimmer)	Adjust for 17±0.3V reading on DC VTVM. Repeat steps (13) and (14).
SW₄-RF ALIGNMENT							
(15)	SW ₄	"	12MHz	12MHz	"	L321 (SW ₄ OSC Coil) L312 (SW ₄ DET Coil) L306 (SW ₄ ANT Coil)	Adjust for 5±0.1V reading on DC VTVM.
(16)	SW ₄	"	20MHz	20MHz	"	CT322 (SW ₄ OSC Trimmer) CT313 (SW ₄ DET Trimmer) CT307 (SW ₄ ANT Trimmer)	Adjust for 15±0.3V reading on DC VTVM. Repeat steps (15) and (16).
SW₅-RF ALIGNMENT							
(17)	SW ₅	"	20MHz	20MHz	"	L322 (SW ₅ OSC Coil) L313 (SW ₅ DET Coil) L307 (SW ₅ ANT Coil)	Adjust for 6±0.1V reading on DC VTVM,
(18)	SW ₅	"	30MHz	30MHz	"	CT323 (SW ₅ OSC Trimmer) CT314 (SW ₅ DET Trimmer) CT308 (SW ₅ ANT Trimmer)	Adjust for 15±0.3V reading on DC VTVM. Repeat steps (17) and (18).

■ FM ALIGNMENT

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (VTVM or SCOPE)	ADJUSTMENT	REMARKS	
	CONNECTIONS	FREQUENCY					
(1)	FM	Connect to test point 1 through 0.001μF. Negative side to E .	10.7MHz	Point of non-interference.	Connect vert. amp. of scope to test point 2 . Negative side to test point E .	T101 (FM IFT) (Primary)	Adjust for maximum amplitude. (Refer to fig. 23.)
(2)	FM	"	"	"	"	T102 (FM IFT) (Secondary)	Adjust for maximum amplitude. (Refer to fig. 24.)
FM-RF ALIGNMENT							
(3)	FM	Connect to test point 1 through FM dummy antenna. (Refer to fig. 25).	87.5MHz	87.5MHz	Connect DC VTVM between 7 and E .	L104 (FM OSC Coil)	(*2) Adjust for 3.0±0.1V reading on DC VTVM.
(4)	FM	"	90.5MHz	90.5MHz	"	L101 (FM DET Coil) L102 (FM ANT Coil)	(*2) Adjust for maximum output.
(5)	FM	"	106MHz	106MHz	"	CT101 (FM DET Trimmer) CT102 (FM ANT Trimmer)	"
(6)	FM	"	108MHz	108MHz	"	CT103 (FM OSC Trimmer)	(*2) Adjust for 11±0.5V reading on DC VTVM. Repeat steps. (3)~(6).

(*2) Three output responses will be preset; proper tuning is the center frequency

■ TUNE/BATT METER ADJUSTMENT

1. RADIO RECEIVER SETTING	2. REMARKS
<ul style="list-style-type: none">• Set band switch to MW.• Set volume control MIN.• Set Phone/Radio switch to Radio.• Set power source voltage to 9.8 volts DC.• Frequency Display switch to ON.• Light switch to OFF.	<ul style="list-style-type: none">• Adjust VR101 so that the pointer of meter says as shown in figure, 22.

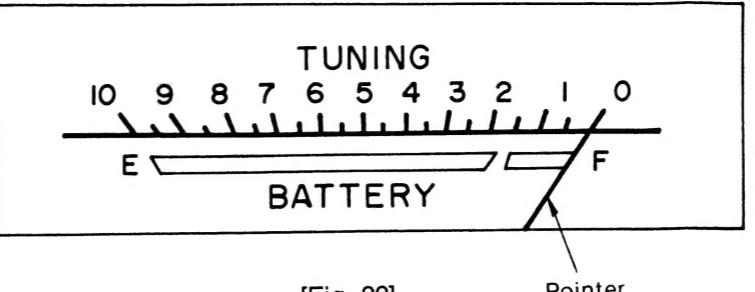


Fig. 22]

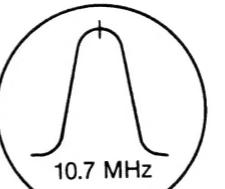
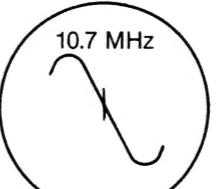
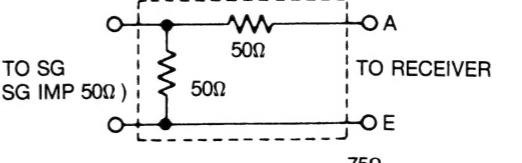


Fig. 23]

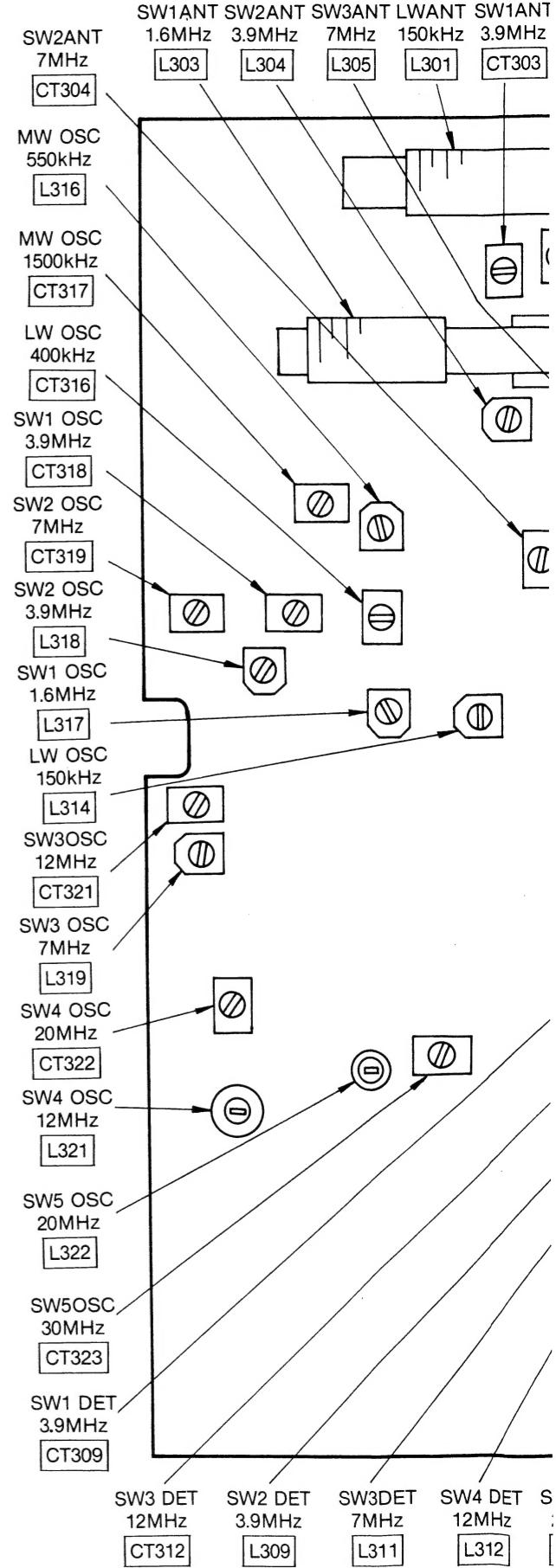


[Fig. 24]



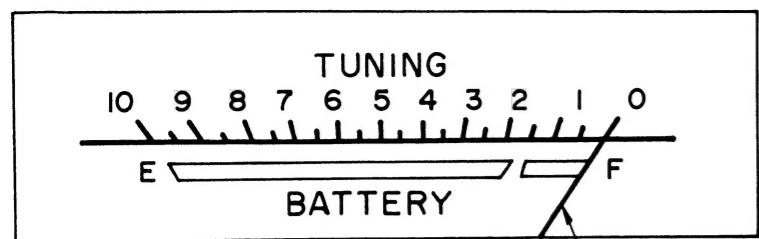
[Fig. 25] FM Dummy Antenna

■ ALIGNMENT POINTS



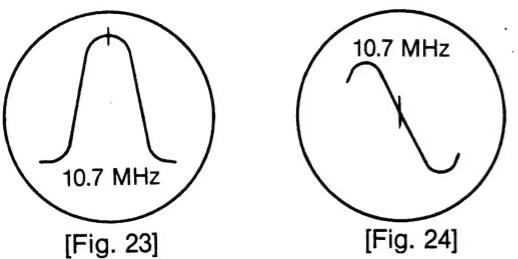
■ TUNE/BATT METER ADJUSTMENT

1. RADIO RECEIVER SETTING
 - Set band switch to MW.
 - Set volume control MIN.
 - Set Phono/Radio switch to Radio.
 - Set power source voltage to 9.8 volts DC.
 - Frequency Display switch to ON.
 - Light switch to OFF.
2. REMARKS
 - Adjust VR101 so that the pointer of meter says as shown in figure. 22.



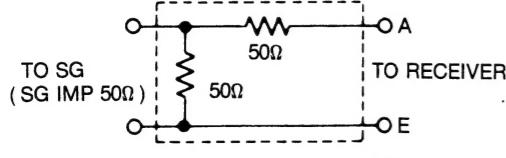
[Fig. 22]

Pointer



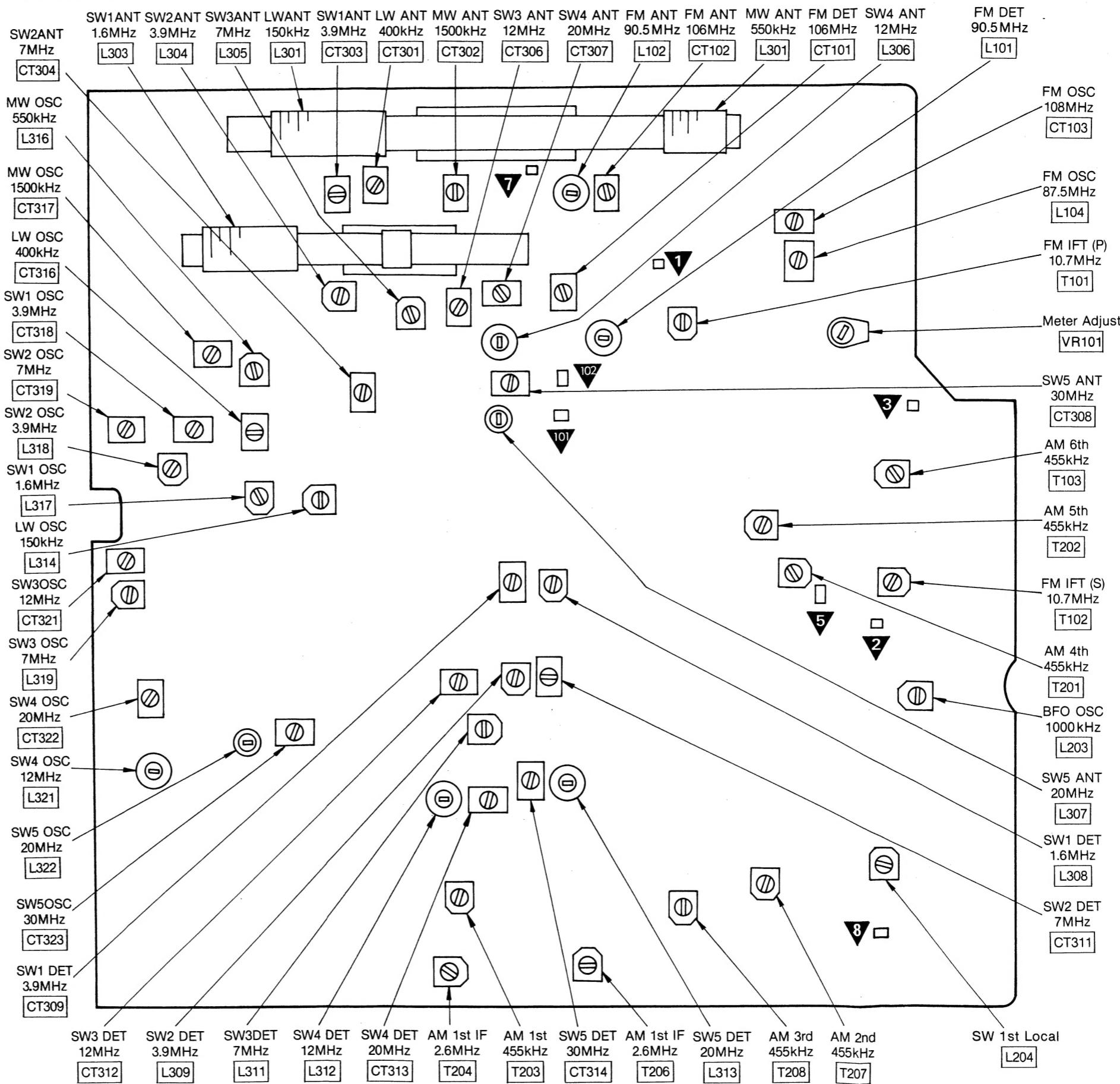
[Fig. 23]

[Fig. 24]



[Fig. 25] FM Dummy Antenna

■ ALIGNMENT POINTS



SCHEMATIC DIAGRAM (TUNER, AF, DIN JACK & FILTER, SWITCH, MI

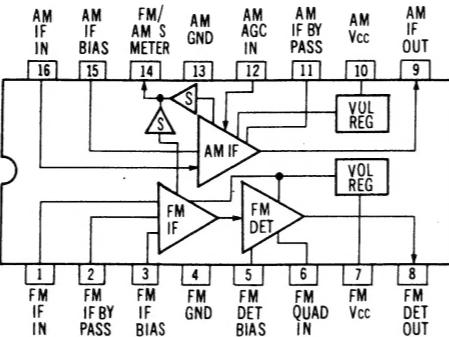
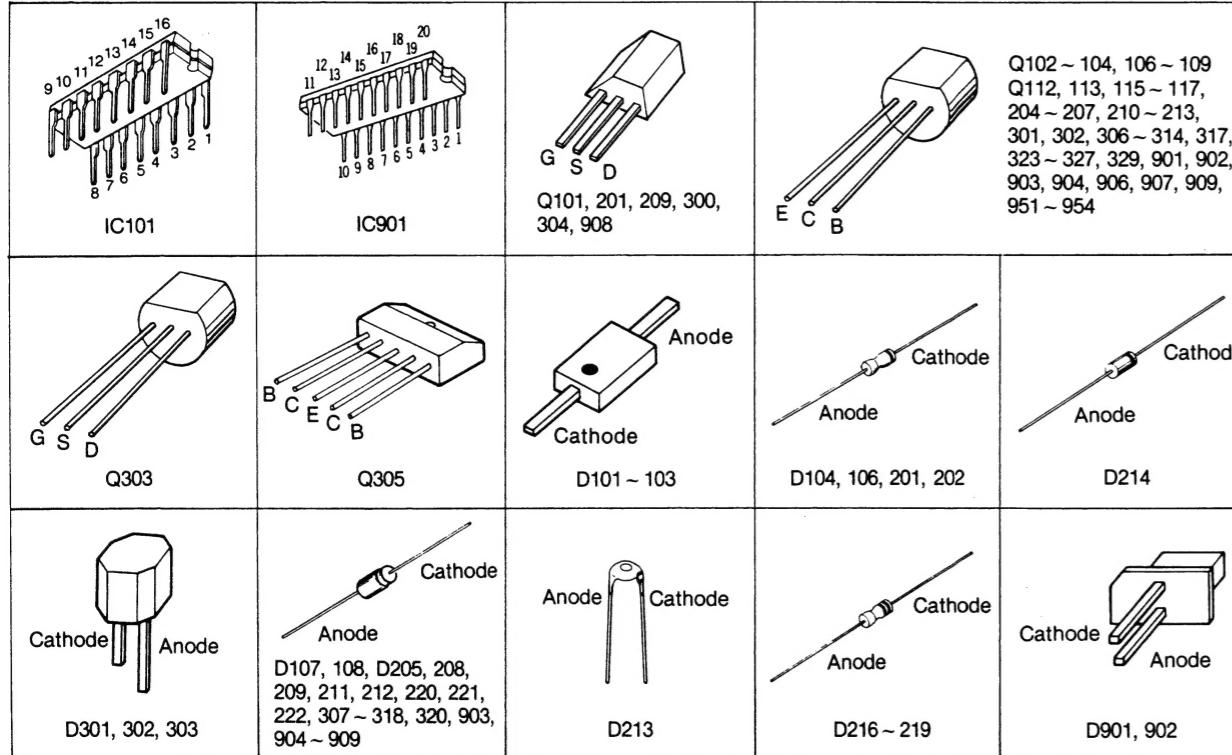
Notes:

1. S1 Radio ON/OFF switch in "OFF ()" position.
2. S2-1, S2-2 Auto ON/OFF switch in "OFF" position.
3. S3 Display ON/OFF switch in "OFF" position.
4. S4 Light ON/OFF switch in "OFF" position.
5. S5 Tuning Lock ON/OFF switch in "OFF" position.
6. S6 Tuning speed Slow/Fast switch in "slow" position.
7. S7 AC voltage selector switch in "220~240V" position.
8. S8 Power supply AC/DC switch in "AC" position.
9. S9-1, S9-2 BFO ON/OFF switch in "OFF" position.
10. S10-1, S10-2 Band width Wide/Narrow switch in "Wide" position.
11. S24-1~S24-3 Radio/Phono switch in "Radio" position.
12. S301-1~S301-6, S302-1~S302-6 Band selector switch in "FM" position.
(1...SW5, 2...SW4, 3...SW3, 4...SW2, 9...SW1, 10...MW, 11...LW, 12...FM)

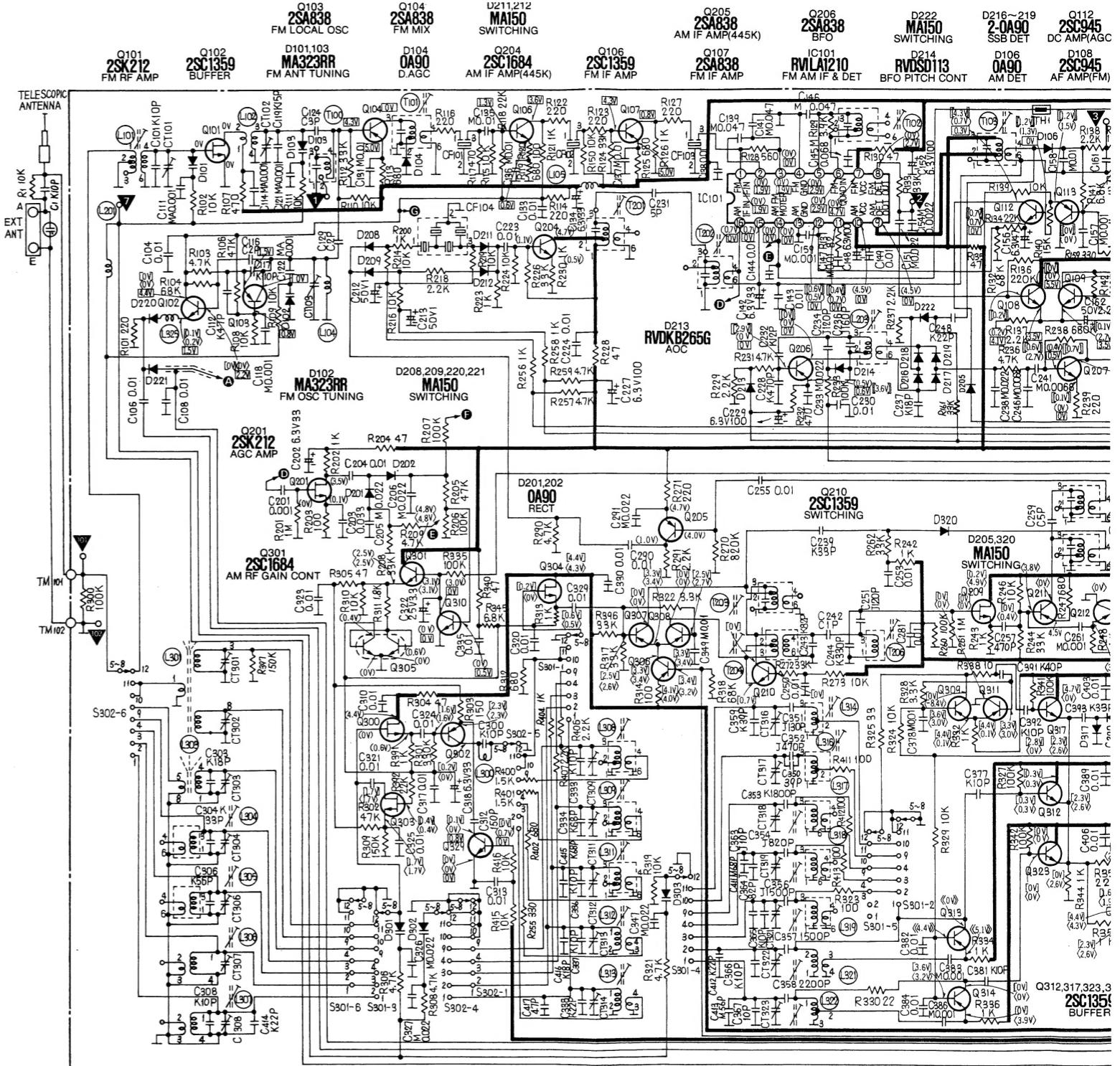
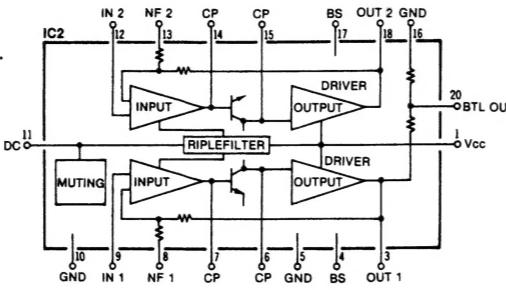
13. The mark (▼) shows test point. e.g., ▼ = Test point 1.
14. DC voltage measurements are taken with electronics voltmeter from negative terminal of battery.

□ ... FM position, () ... AM position, [] ... LW position,
< > ... SW5 position, [] ... BFO ON position, < > ... SW4 position.

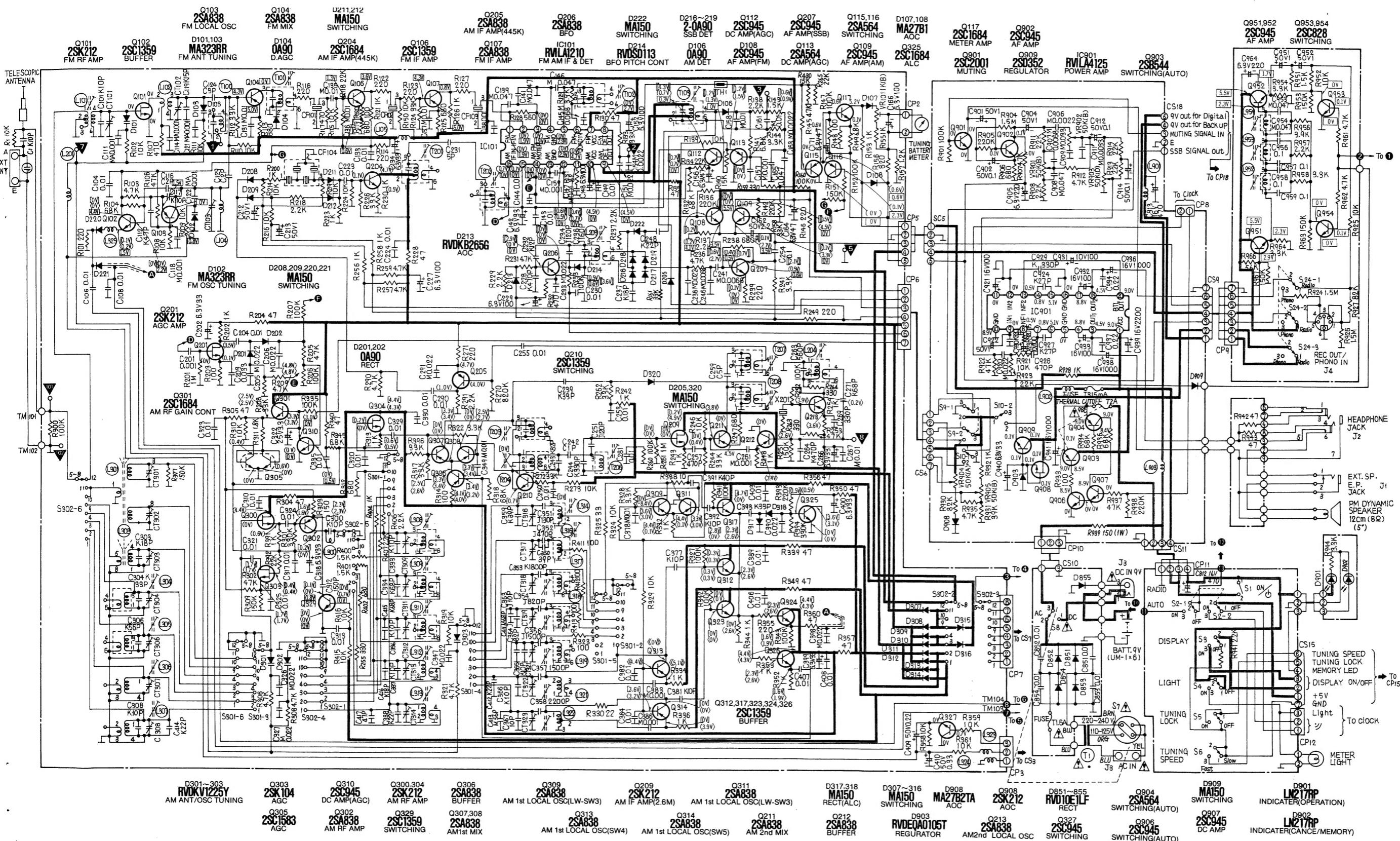
15. Battery current: No signal 220 mA
Maximum 1A
16. △ indicates that only parts specified by the manufacturer be used for safety.



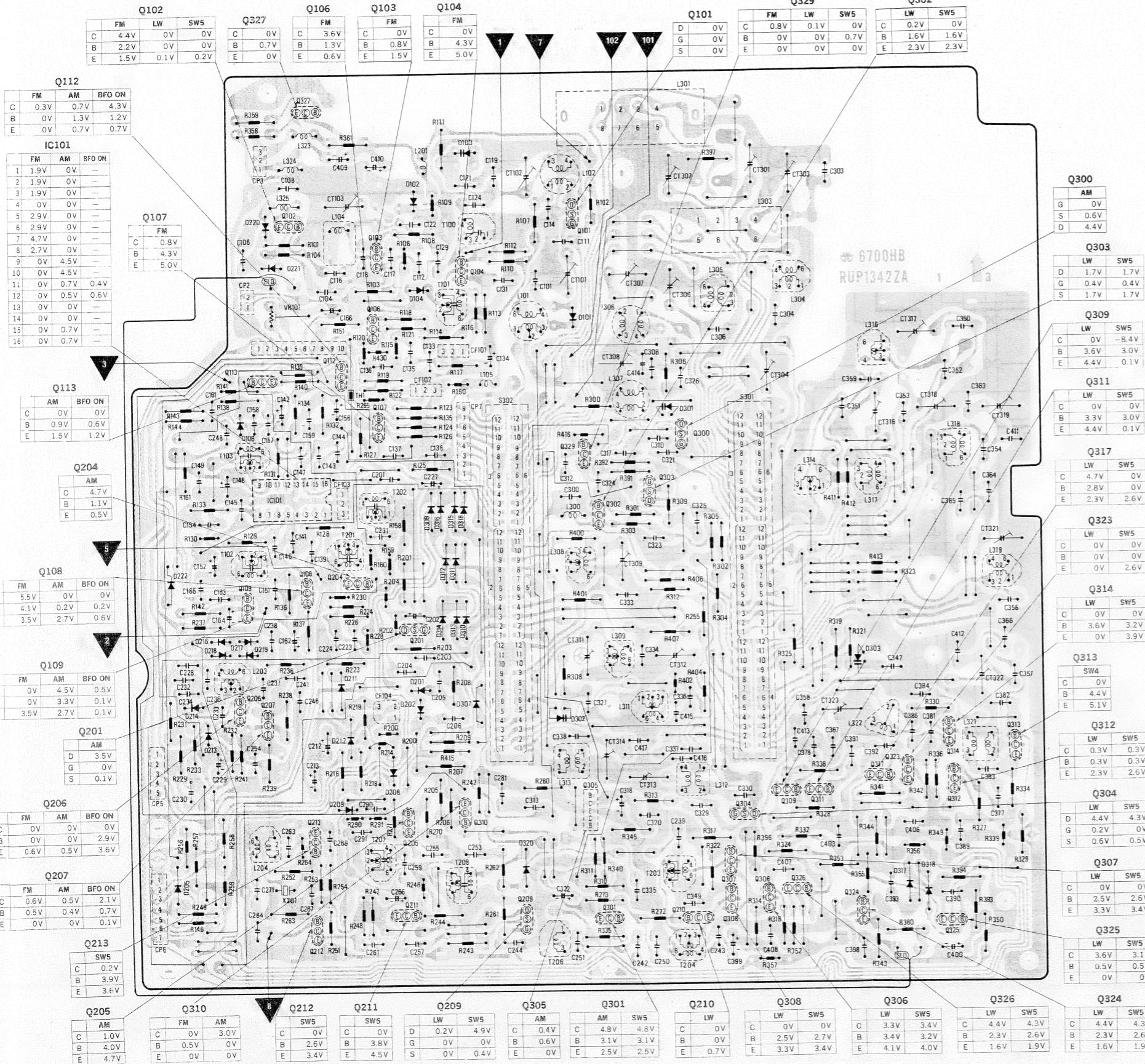
IC901 RVILA 4125

D301~303
RVVK1225Y
AM ANT/OSC TUNINGQ303
2SK104
AGCQ310
2SC945
DC AMP(AGC)Q302
2SA838
AM RF AMPQ328
2SC1359
SWITCHINGQ306
2SA838
BUFFERQ309
2SA838
AM 1st LOCAL OSC(LW-SW3)Q209
2SK212
AM IF AMP(2.6M)Q311
2SA838
AM 1st LOCAL OSC(LV)Q301
2SC1684
AM RF GAIN CONTQ304
2SC1359
SWITCHINGQ306
2SA838
AM1st MIXQ313
2SA838
AM 1st LOCAL OSC(SW4)Q314
2SA838
AM 1st LOCAL OSC(SW5)Q311
2SC945
DC AMP(AGC)Q210
2SK212
AM 1st LOCAL OSCQ312
2SC1359
BUFFERQ211
2SA838
AM 1st LOCAL OSCQ212
2SA838
AM 1st LOCAL OSCQ213
2SC945
DC AMP(AGC)Q214
2SA838
AM DETQ205
2SA838
AM IF AMP(445K)Q206
2SA838
BFOQ222
MA150
SWITCHINGQ215
2SA838
SSB DETQ216~219
2-OA90
DC AMP(AGC)Q217
2SA838
AM DETQ218
2SC945
AF AMP(FM)Q219
2SC945
AF AMP(FM)Q220
2SA838
AM DETQ221
2SC945
DC AMP(AGC)Q222
2SA838
AM DETQ223
2SC945
DC AMP(AGC)Q224
2SA838
AM DETQ225
2SA838
AM DETQ226
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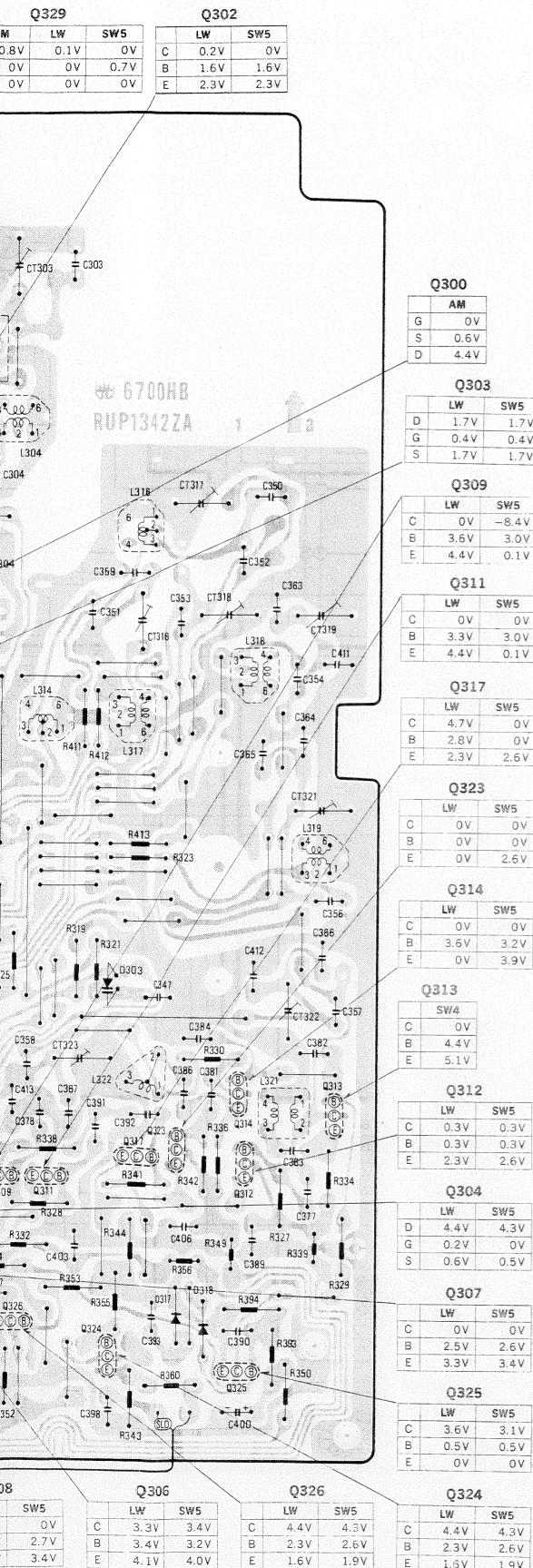
SCHEMATIC DIAGRAM (TUNER, AF, DIN JACK & FILTER, SWITCH, METER, LED, HEADPHONE JACK, POWER CIRCUIT BOARD)



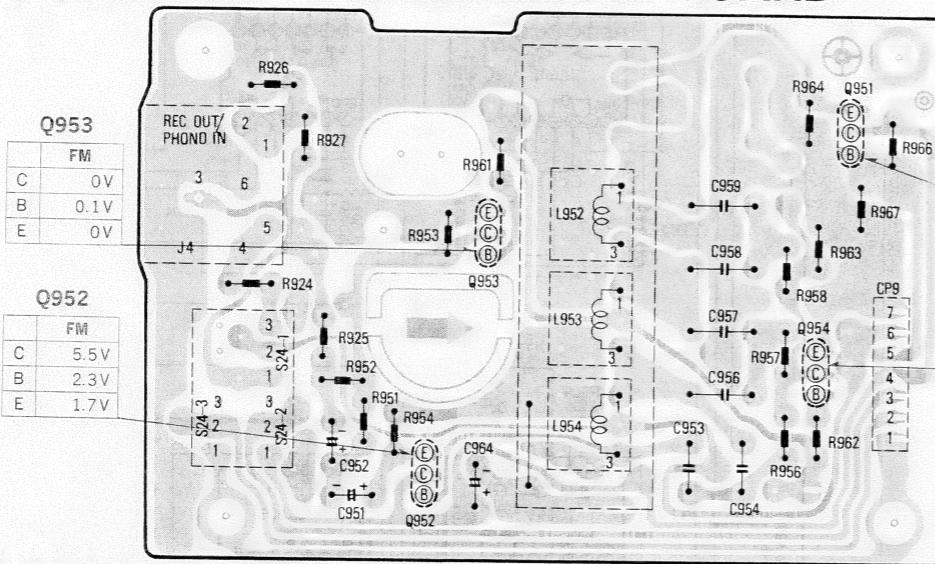
■ TUNER CIRCUIT BOARD



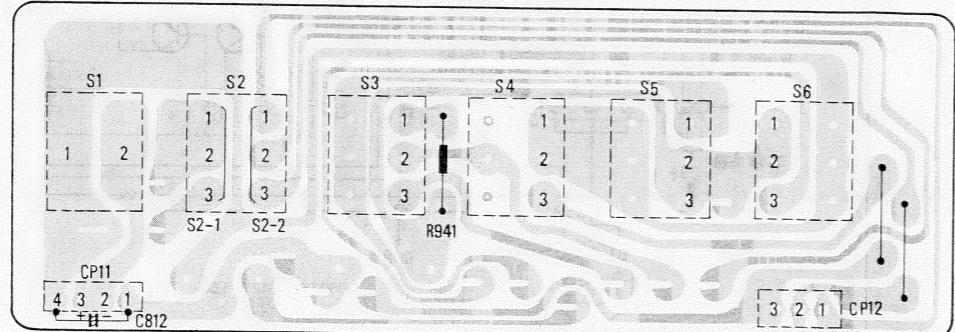
■ AF CIRCUIT BOARD



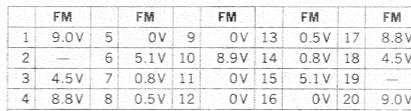
■ DIN JACK & FILTER CIRCUIT BOARD



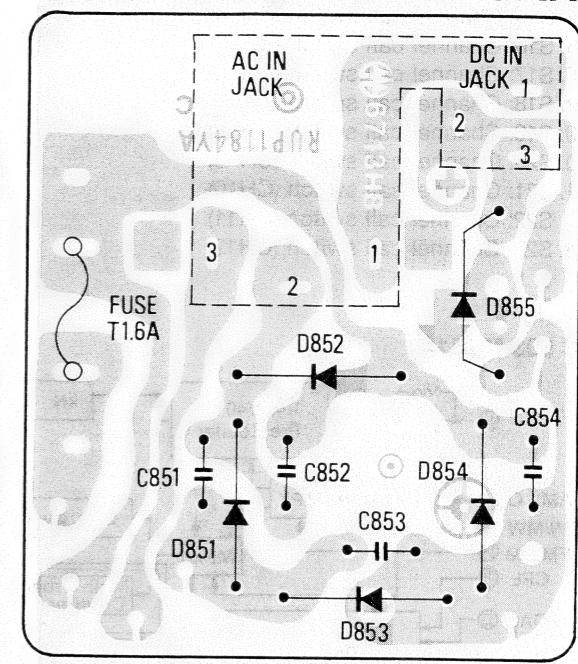
■ SWITCH CIRCUIT BOARD



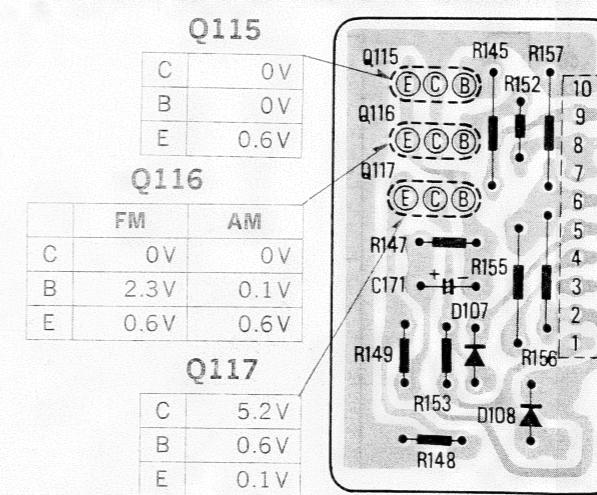
IC901



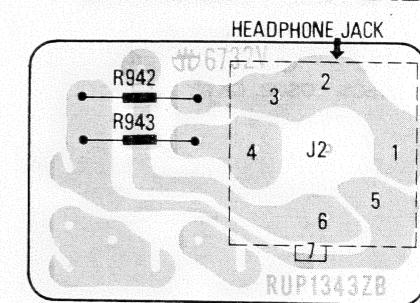
■ POWER CIRCUIT BOARD



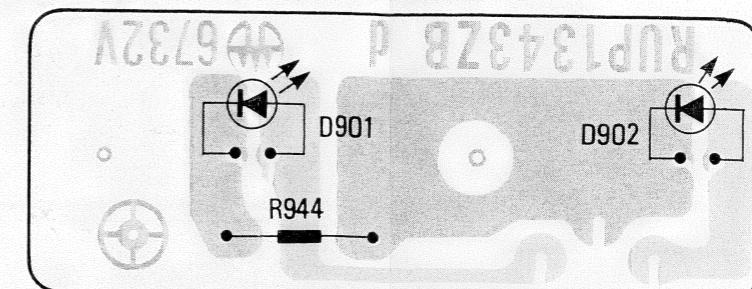
■ METER CIRCUIT BOARD



■ HEADPHONE JACK CIRCUIT BOARD



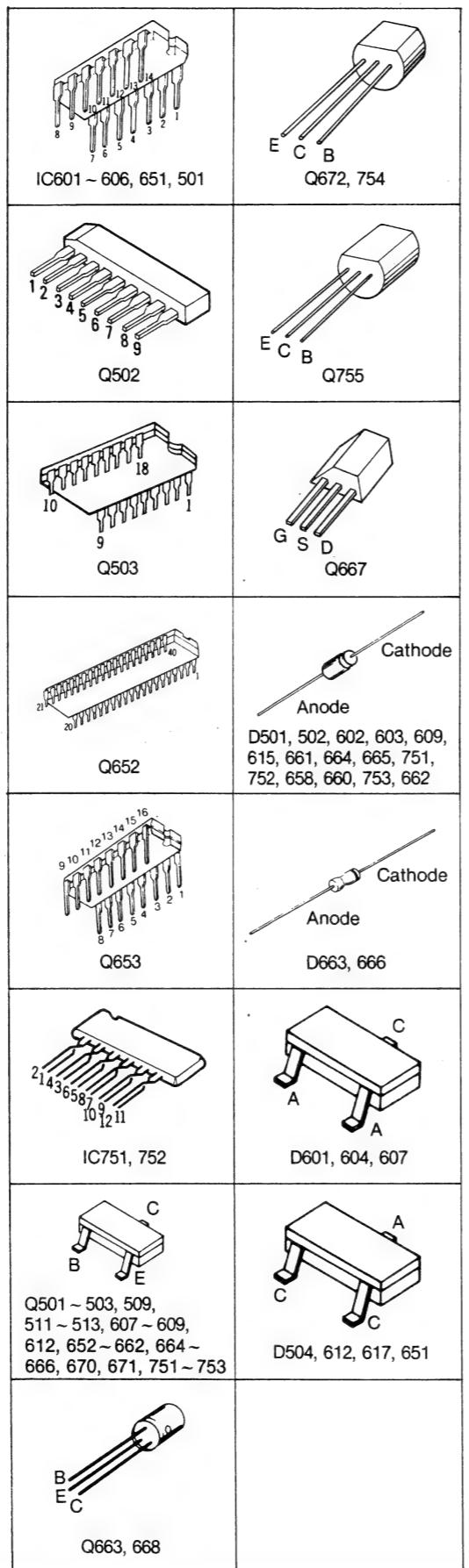
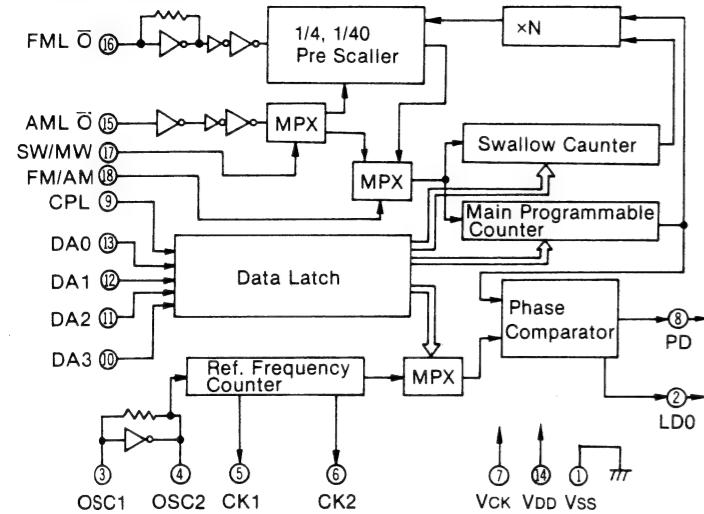
■ LED CIRCUIT BOARD



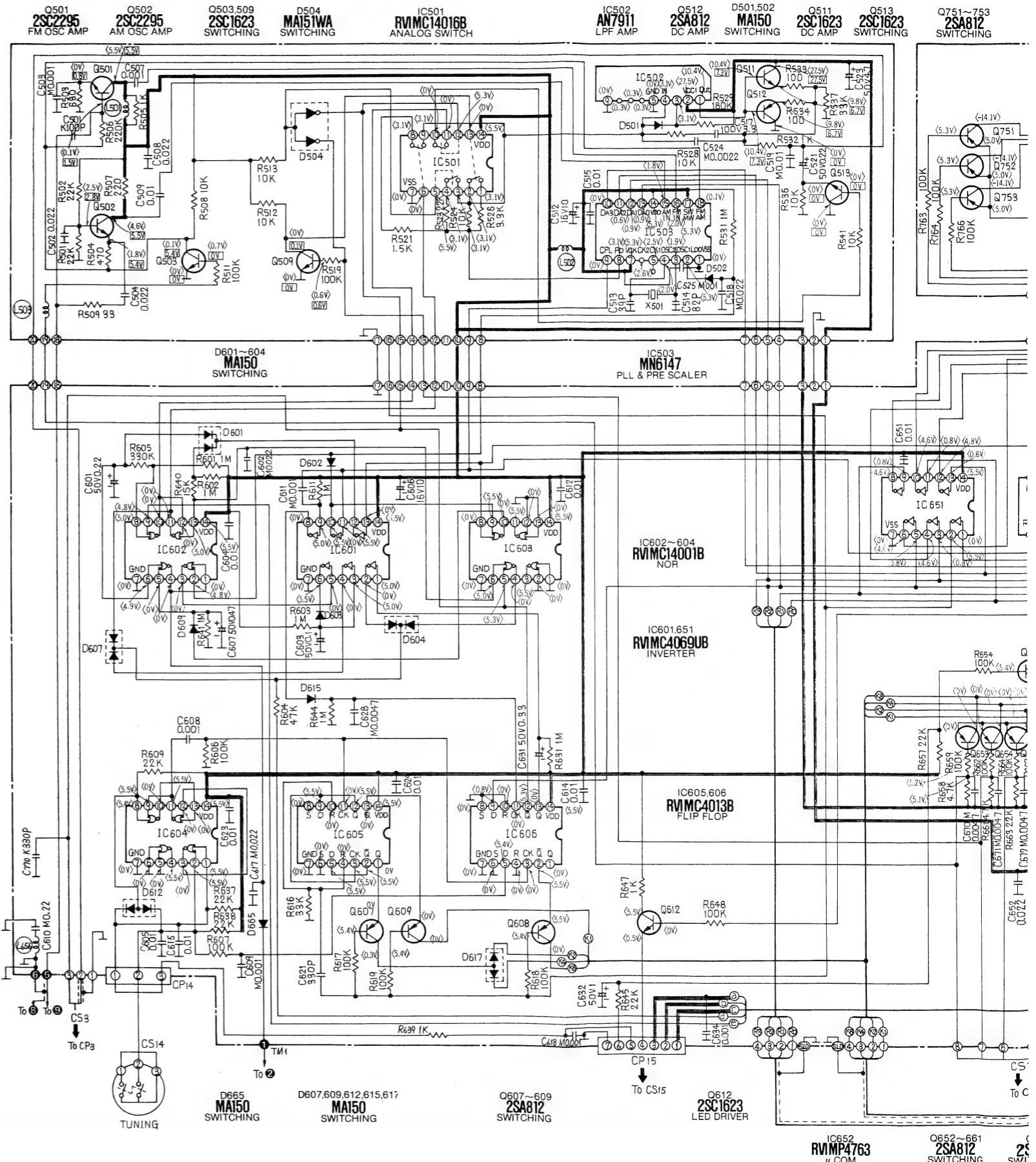
Notes:

1. S11: Memory switch.
2. S12: Channel call switch (CH 1)
3. S13: Channel call switch (CH 2)
4. S14: Channel call switch (CH 3)
5. S15: Channel call switch (CH 4)
6. S16: Channel call switch (CH 5)
7. S17: Channel call switch (CH 6)
8. S18: Channel call switch (CH 7)
9. S19: Channel call switch (CH 8)
10. S20: Channel call switch (CH 9)
11. S21: Channel call switch (CH10)
12. S22: Channel call switch (CH11)
13. S23: Channel call switch (CH12)

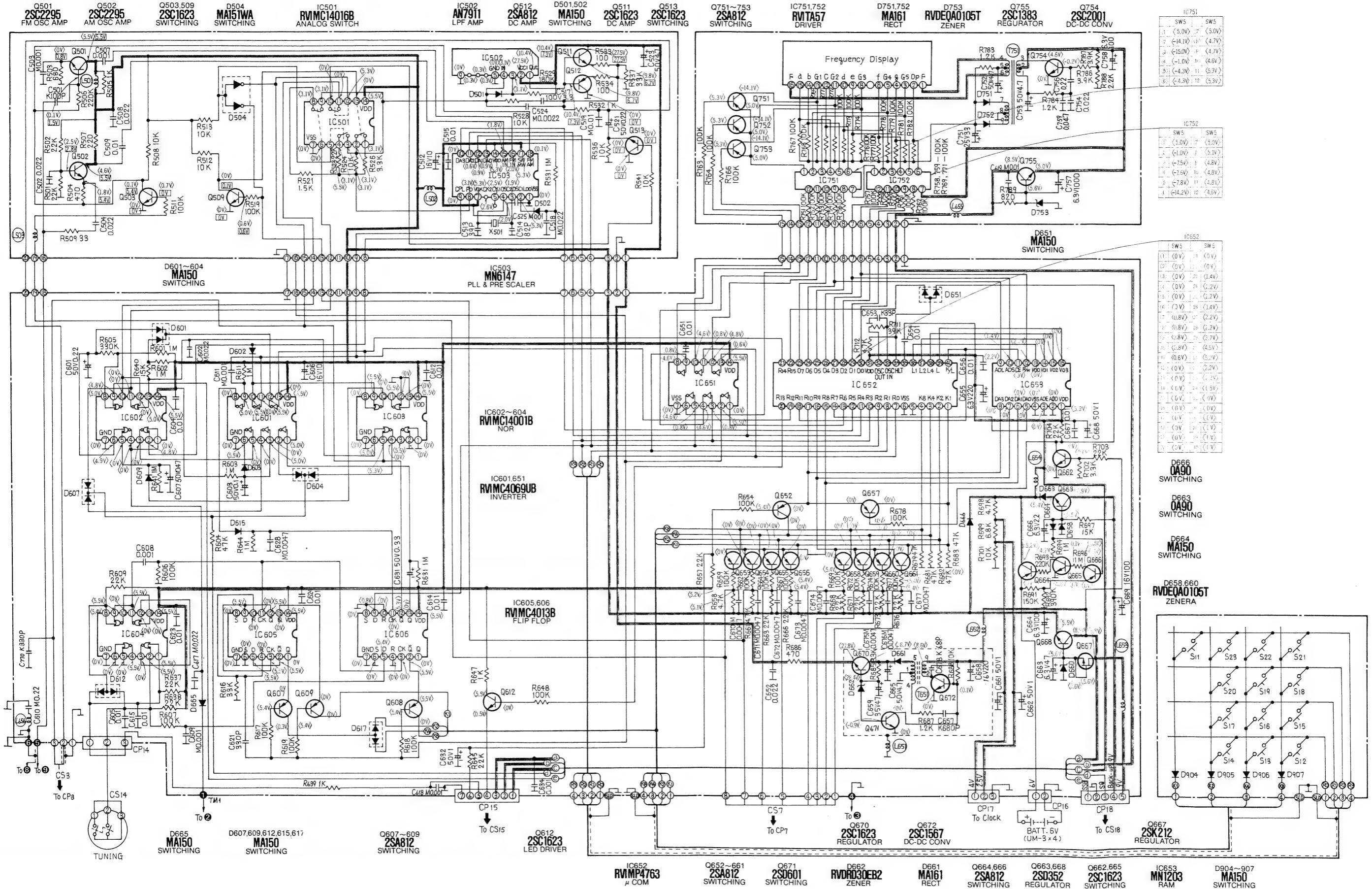
IC 503 MN6147



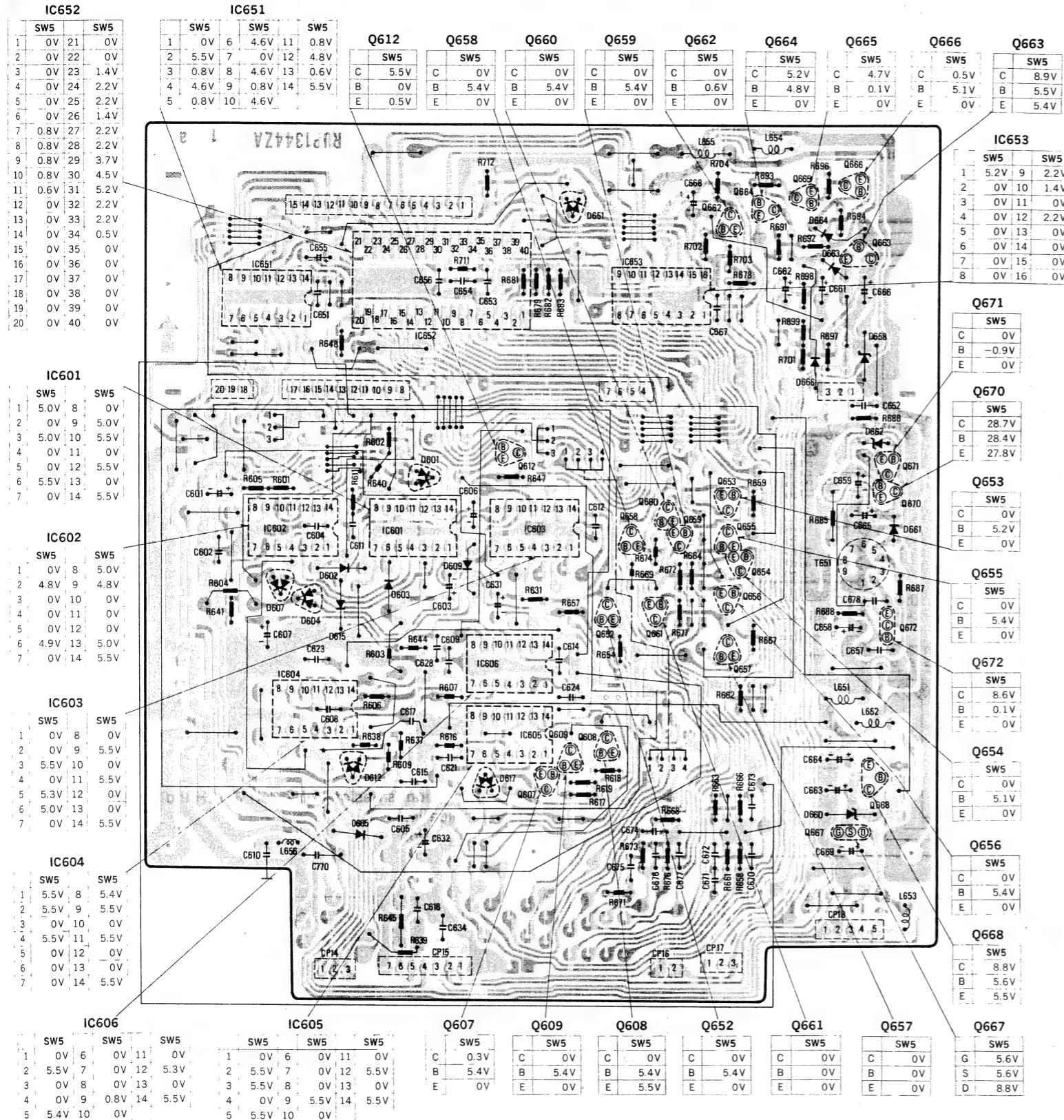
SCHEMATIC DIAGRAM (CONTROL, FREQUENCY DISPLA



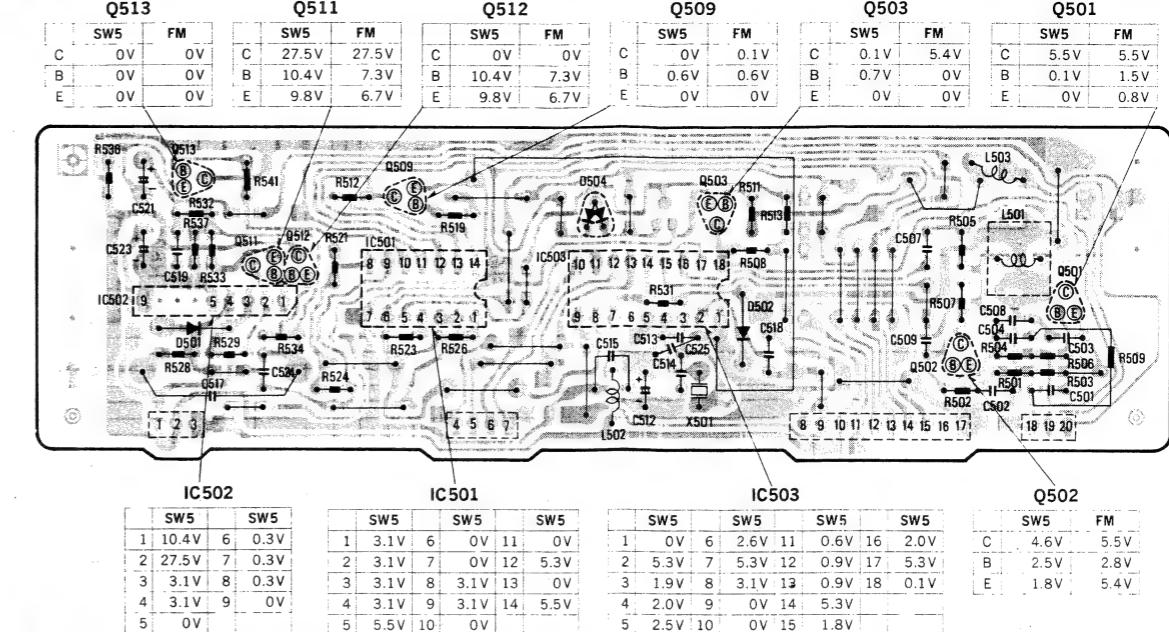
SCHEMATIC DIAGRAM (CONTROL, FREQUENCY DISPLAY, PLL & KEY BOARD CIRCUIT BOARD)



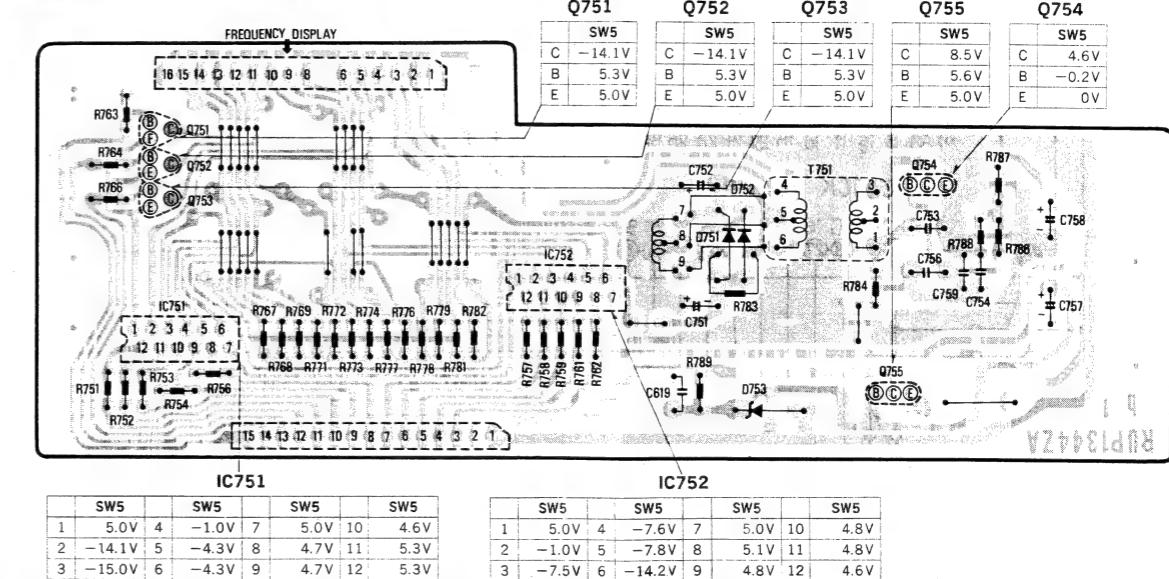
■ CONTROL CIRCUIT BOARD



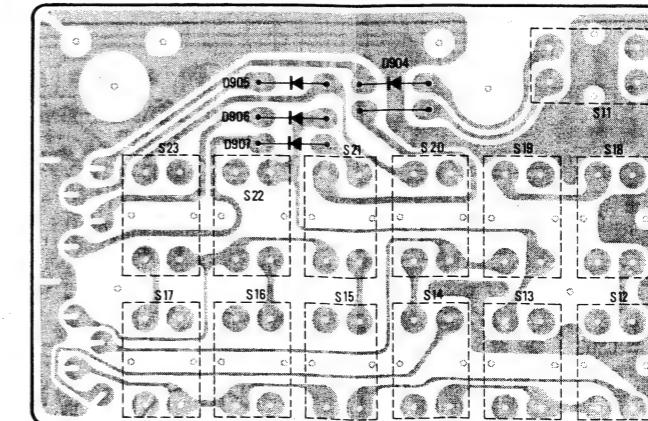
■ PLL CIRCUIT BOARD



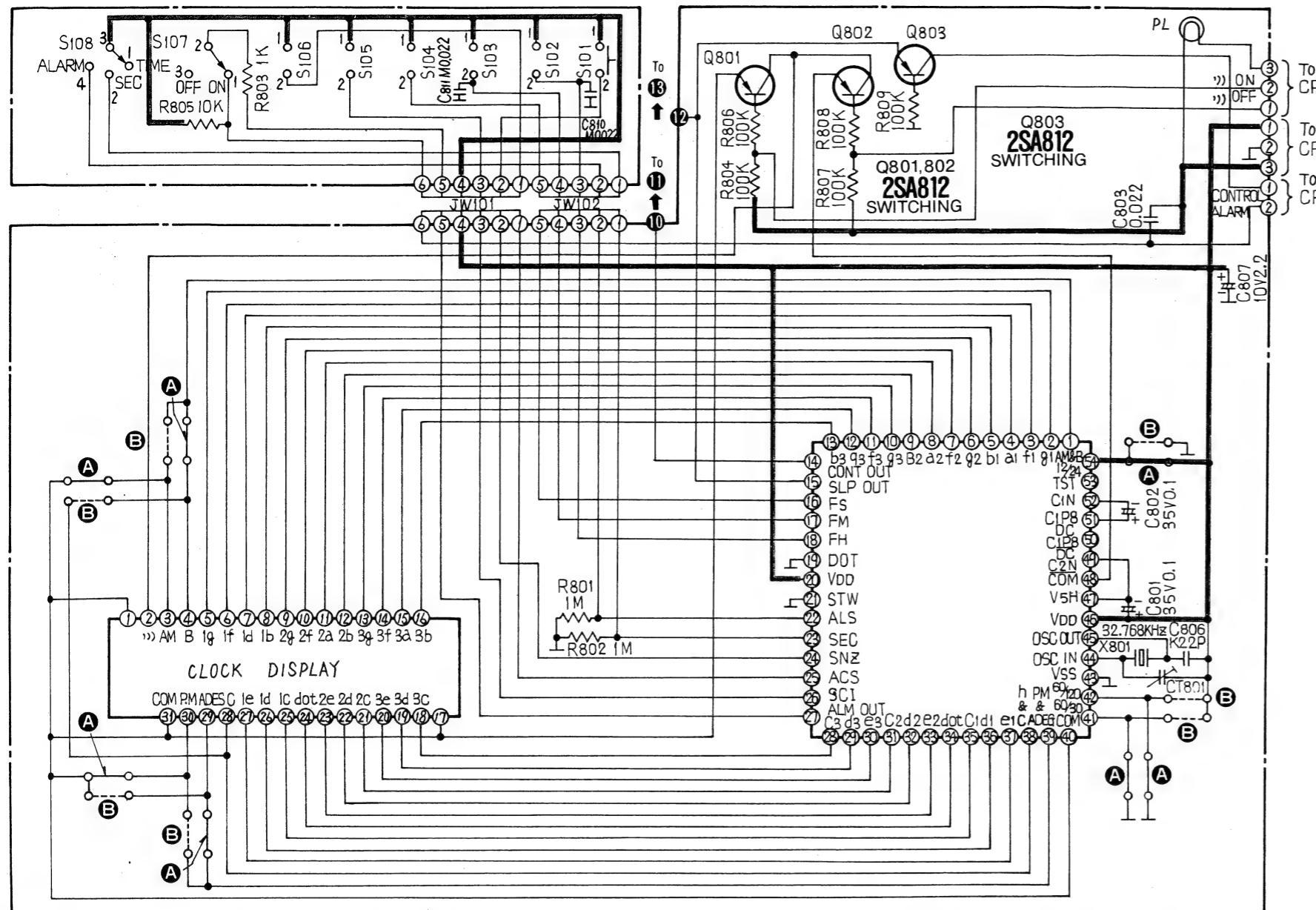
■ FREQUENCY DISPLAY CIRCUIT BOARD



■ KEY BOARD CIRCUIT BOARD



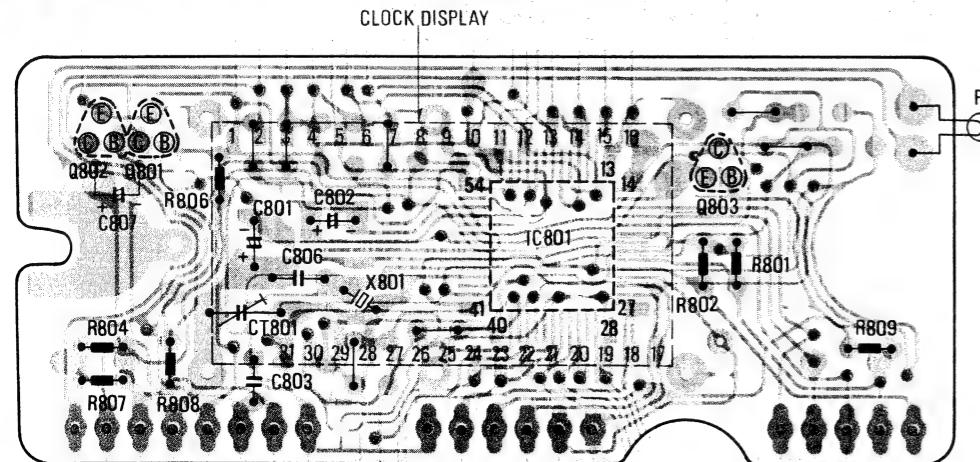
SCHEMATIC DIAGRAM (CLOCK & SWITCH CIRCUIT BOARD)



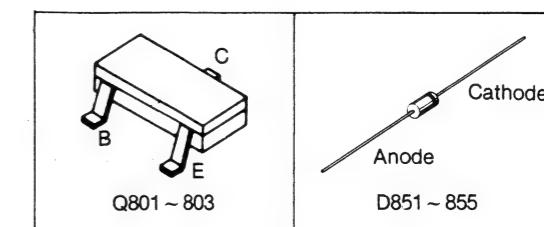
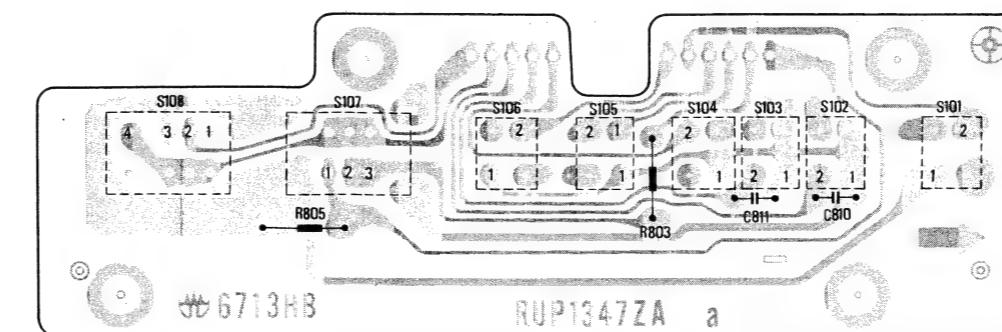
NOTE: The clock section is designed for 24H & 12H indication.

- Ⓐ : 24H indication
- Ⓑ : 12H indication

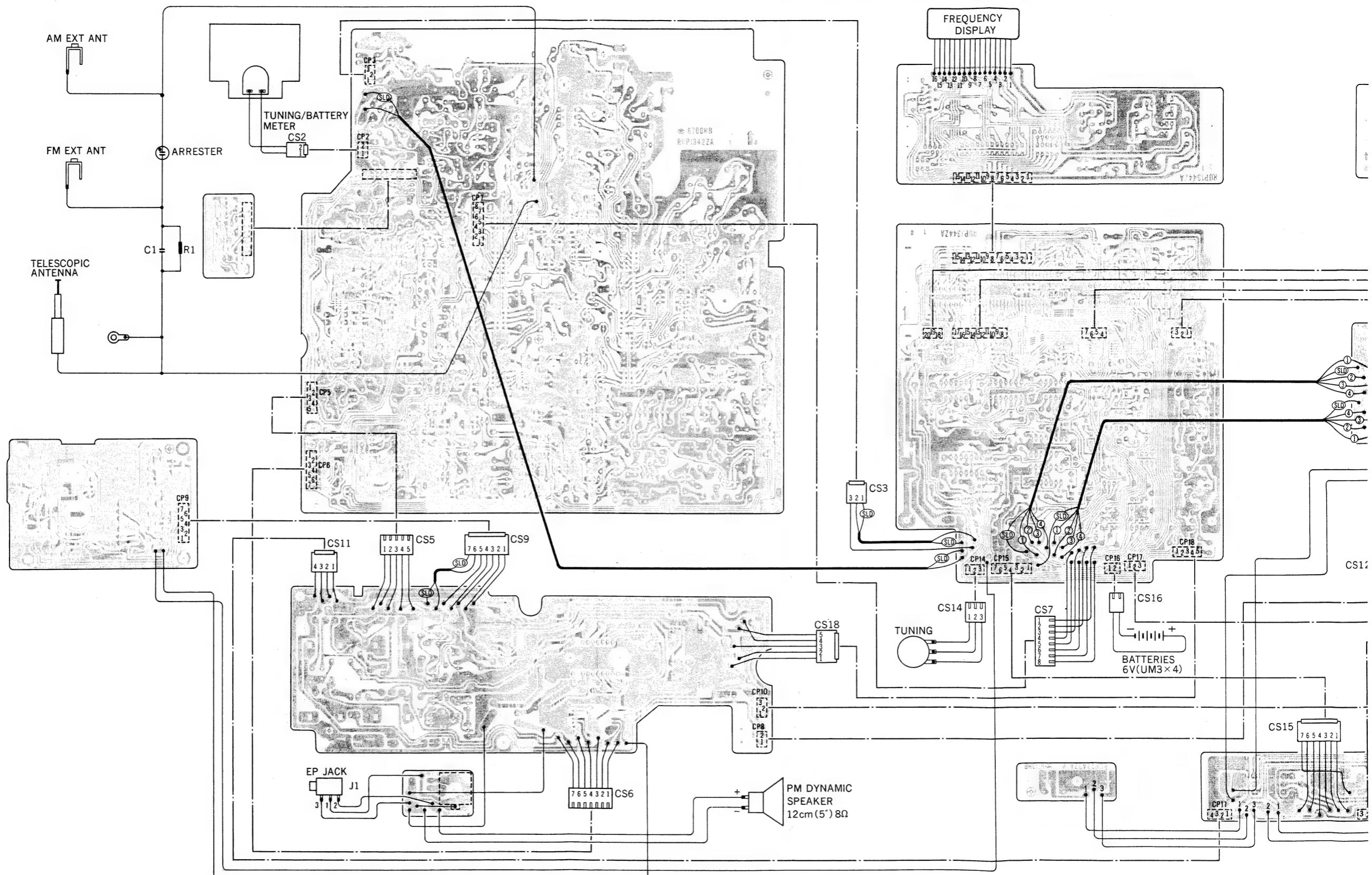
■ CLOCK CIRCUIT BOARD



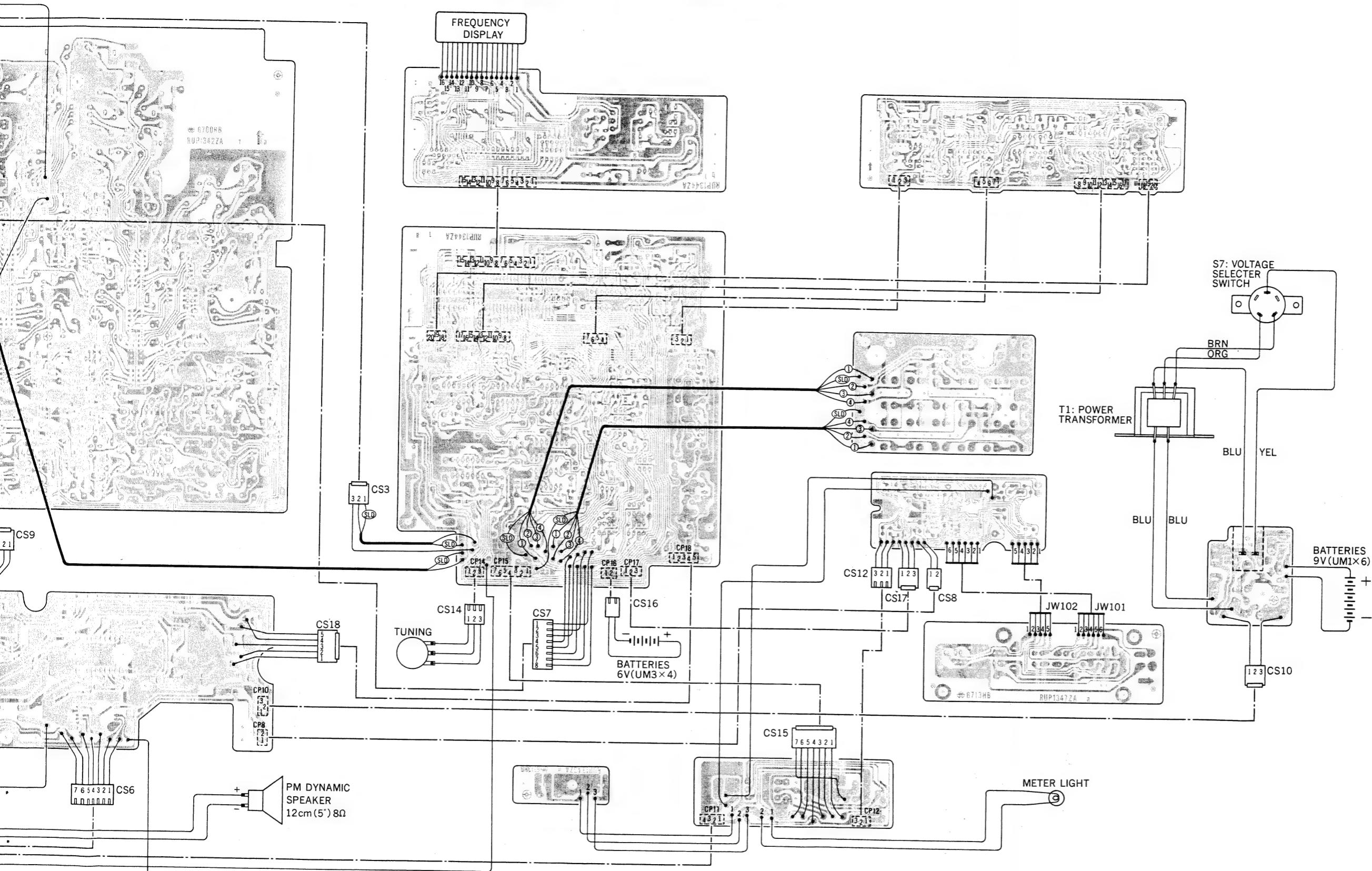
■ SWITCH CIRCUIT BOARD (CLOCK)



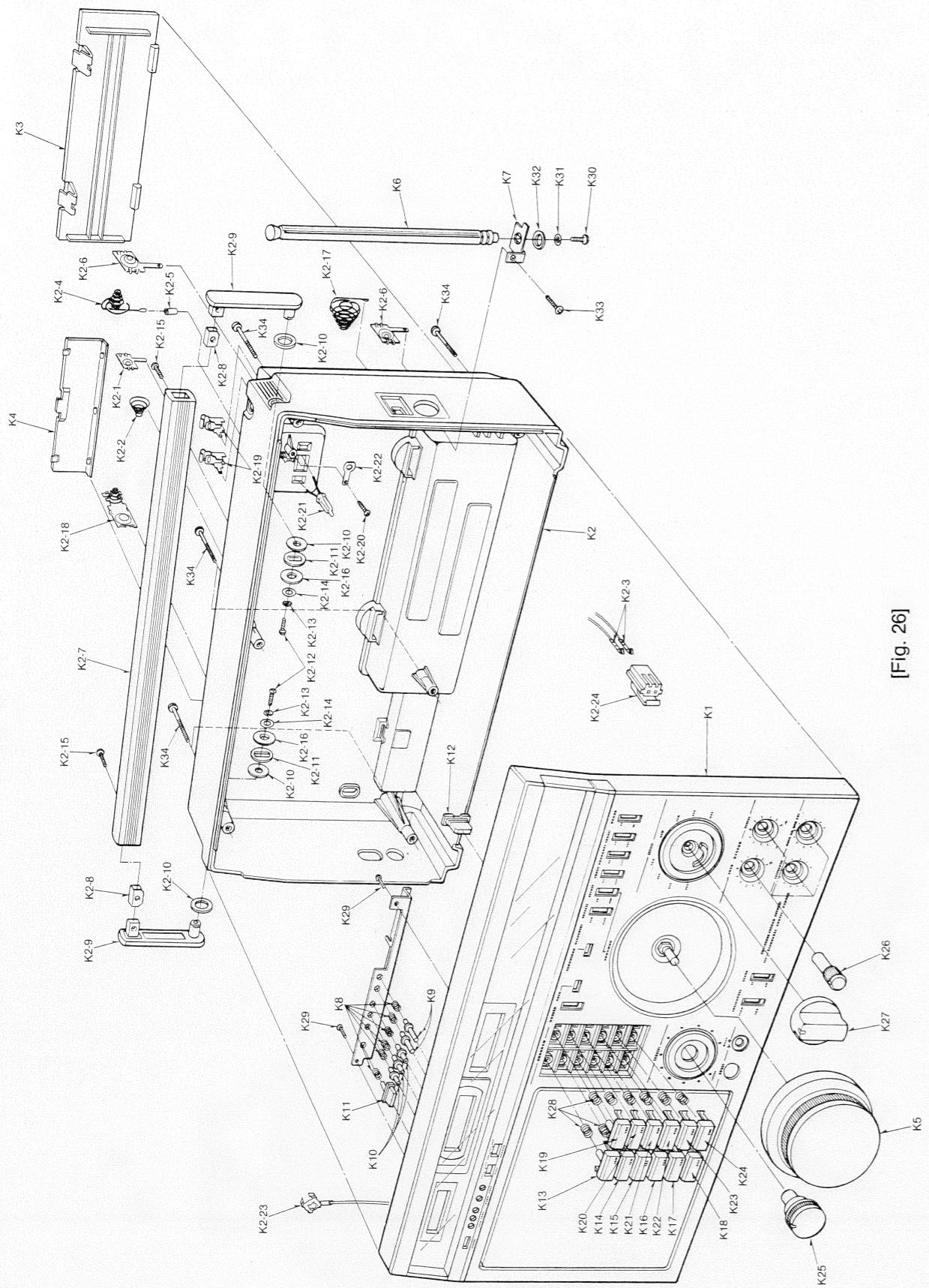
WIRING CONNECTION DIAGRAM MODEL RF-6300LBS



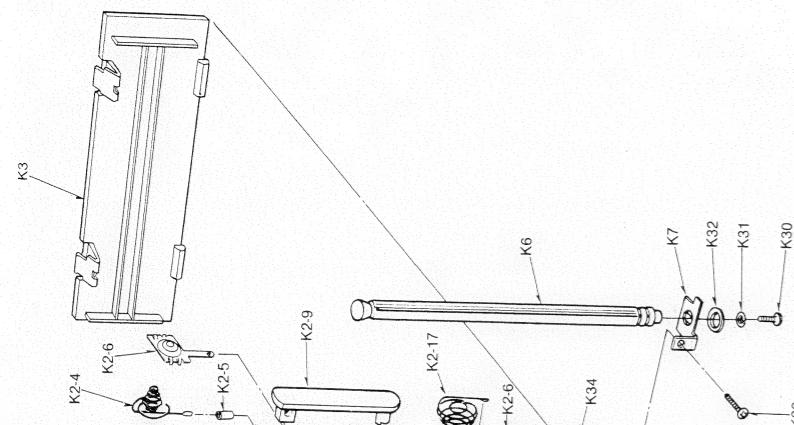
WIRING CONNECTION DIAGRAM MODEL RF-6300LBS



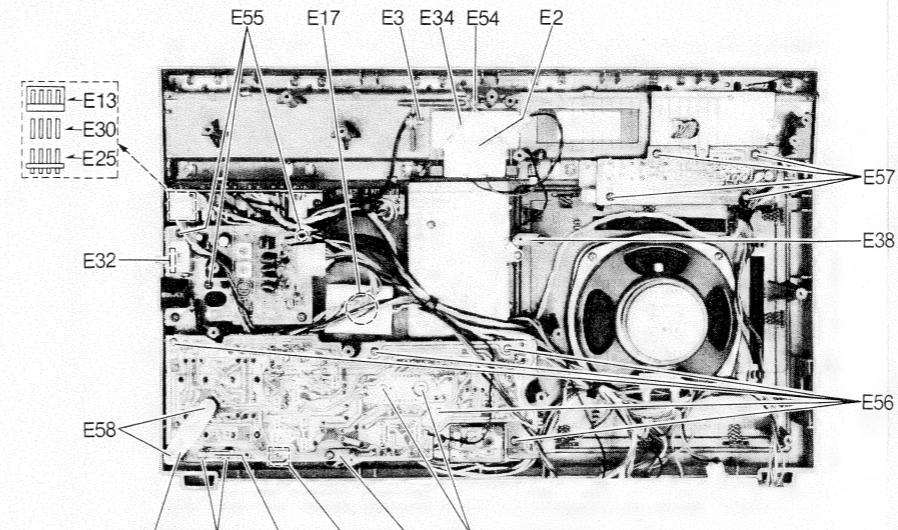
CABINET PARTS



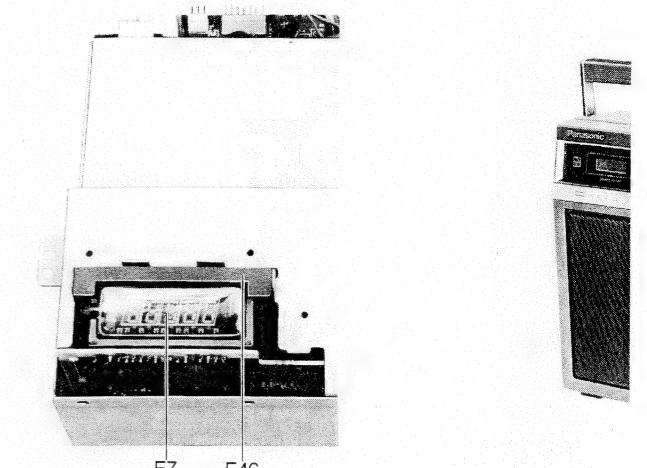
[Fig. 26]



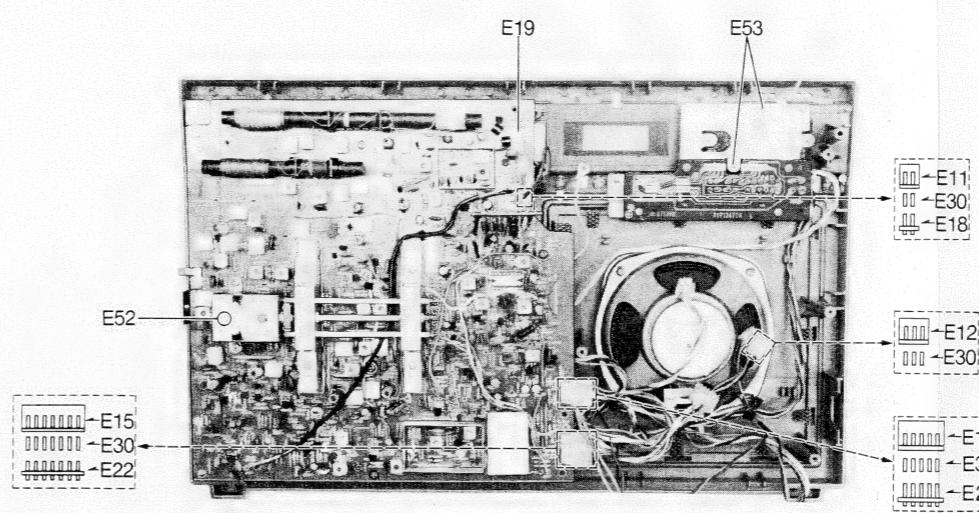
[Fig. 27]



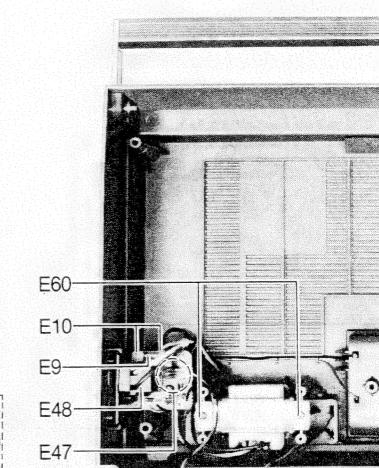
[Fig. 27]



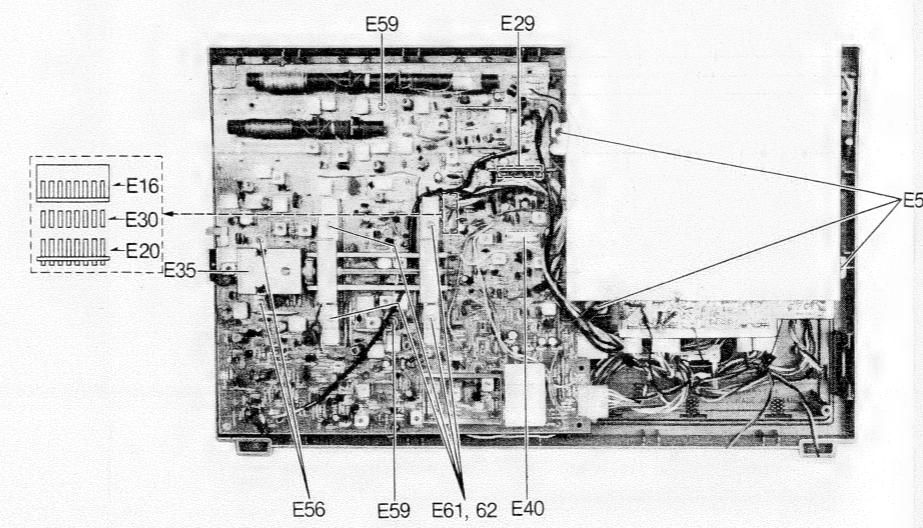
[Fig. 28]



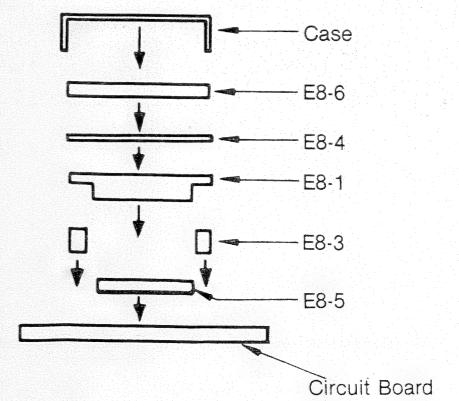
[Fig. 29]



[Fig. 30]



[Fig. 31]



[Fig. 32]

E8
E33
E8-2
E49

E39
E39

REPLACEMENT PARTS LISTModel RF-6300LBS
(RD81035193S2)

NOTES: 1. Δ indicates that only parts specified by the manufacturer be used for safety.
 2. The S mark indicates service standard parts and may differ from production parts.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
INTEGRATED CIRCUITS, TRANSISTORS AND DIODES									
IC101	RVILA1210	IC	1		Q953,954	2SC828	Transistor (Si)	2	
IC501	RVIMC14016B	IC	1		D101,102	103	Diode (Si)	3	
IC502	AN7911	IC	1		D104,106	MA323RR			
IC503	MN6147	IC	1		201,				
IC601,651	RVIMC4069UB	IC	2		202,663	666			
IC602~604	RVIMC14001B	IC	3		OA90		Diode (Ge)	6	
IC605,606	RVIMC4013B	IC	2		MA27B1		Diode (Si)	2	
IC652	RVIMP4763	IC	1		D205,208	209,211,212,			
IC653	MN1203	IC	1		220~222	307~318,320,			
IC751,752	RVITA57	IC	2		501,502	602,603,609,			
IC901	RVILA4125	IC	1		615,661	664,665,751,			
Q101,201,	209,300,				752,904	752,909			
304,908,	667				MA161		Diode (Si)	37	S
2SK212		Transistor (Si)	7		D601,604	607			
Q102,106,	210,312,317,				MA151WK		Diode (Si)	3	
323,324,	326,329				D213	RVDKB265G	Diode (Si)	1	
2SC1359		Transistor (Si)	9		D214	RVDS113	Diode (Si)	1	S
Q103,104,	107,205,206,				D216~219	20A90	Diode (Ge)	4	S
211~213,	302,306~309,				D301,302	303			
311,313,	314				RVDKV1225S.		Diode (Si)	1	
2SA838		Transistor (Ge)	16		D658,660	753,903			
Q108,109,	112,207,				RVDEQA0105T		Diode (Si)	4	
310,327,	902,906,				D662	RVDRD30EB2	Diode (Si)	1	
907,951,	952				D851~855	SM112	Diode (Si)	5	S
2SC945		Transistor (Si)	11		D504,612	617,651			
Q113,115,	116,904				MA151WA		Diode (Si)	4	
2SA564		Transistor (Ge)	4		D901,902	LN217RP	Diode (Ga)	2	
Q117,204,	301,325				D908	MA27B2TA	Diode (Si)	1	
2SC1684		Transistor (Si)			CRYSTAL				
Q303	2SK104	Transistor (Si)			X201	RVCX3055NRR	Crystal (3.055MHz)	1	
Q305	2SC1583	Transistor (Si)			X501	RVCA4500NZN	Crystal (4.5MHz)	1	
Q501,502	2SC2295	Transistor (Si)			X801	RVCQ32N5Z1	Crystal	1	
Q503,509,	511,513,				COILS AND TRANSFORMERS				
612,662	665,670				L101	SLA4N2	Antenna 1st Coil, FM	1	
2SC1623		Transistor (Si)	8		L102	RL04N134	Antenna 2nd Coil, FM	1	
Q512,607~609,	652~661,				L104	RLD4M10	Oscillator Coil, FM	1	
664,666,	751~753,801~803				L203	RL09M8	BFO Coil	1	
2SA812		Transistor (Ge)	22		L204	RL03M17	2nd Local Coil, SW1	1	
Q663,668,	909				L301	RLF6F22	Antenna Coil, LW, MW	1	
2SD352		Transistor (Si)	3		L303	RLF3W2	Antenna 1st Coil, SW1	1	
Q672	2SC1567	Transistor (Si)	1		L304,309	RLA3M12	Antenna 1st, 2nd Coil, SW2	2	
Q671	2SD601	Transistor (Si)	1		L305,311	RL03M12	Antenna 1st, 2nd Coil, SW3	2	
Q754,901	2SC2001	Transistor (Si)	2		L306,312	RLA3N19	Antenna 1st, 2nd Coil, SW4	2	
Q903	2SB544	Transistor (Ge)	1		L307	RLA3N21	Antenna Coil, SW5	1	
					L308	RL03M21	Antenna 2nd Coil, SW1	1	
					L313	RLA3N20	Antenna 1st, 2nd Coil, SW5	1	
					L314	RL01M10	Oscillator Coil, LW	1	
					L316	RL02M27	Oscillator Coil, MW	1	
					L317	RL03M25	Oscillator Coil, SW1	1	
					L318	RL03M24	Oscillator Coil, SW2	1	
					L319	RL03M80	Oscillator Coil, SW3	1	
					L321	RL03N13	Oscillator Coil, SW4	1	
					L322	RLO4N78	Oscillator Coil, SW5	1	
					L952	RLE5023	Notch Filter, 2.5KHz	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	
L953,954	RLE5024	Notch Filter, 5, 7.5KHZ	2				JACKS			
T1	RLT5U13	Power Transformer	1		J1	RJJ19Z	Jack, Earphone	1		
T100	RLI4M103	IF Trap, FM	1		J2	RJJ108Y	" Headphones	1		
T101,102	RLI4M101	IFT, FM	2		J3	QJS0329	" AC/DC IN	1	⚠	
T103	RLI2M402	Detector, AM	1		J4	RJS15A	" DIN	1		
T201,203	RLI2M204	IFT, AM	2				RESISTORS (Value is in OHMS)			
T202,207	208	IFT, AM	3		R101,114	116,122, 123,127, 146,239, 249,355, 271	220 1/4W Carbon	11	S	
T204	RLI2M207	1st IFT, 2.6MHZ	1		R1,102,10	8~111,115,139, 150,214, 216,219,224, 246,273, 310,319,324, 329,358, 359,361,415, 416,805, 921,925,952	10 k " "	28	S	
T206	RLI9M1	1st IFT, 2.6MHZ	1		R103,231	236,257,259, 306,308, 321,907,912, 935,961, 962,209,290	4.7 k " "	15	S	
T651	RLI9M2	DC-DC Converter Transformer	1		R104,318	934,936,132	68 k " "	5	S	
T751	RLT9Z4	DC-DC Converter Transformer	1		R338	ERD25TJ683	10 " "	1	SSS	
	RLT9F2	DC-DC Converter Transformer	1		R325,509	ERD25FJ100	33 " "	2	SS	
		VARIABLE RESISTORS			R304,305	360,942,943	47 " "	5	SS	
VR101	EVNK4AA00B13	Preset, 1kΩ (B), Meter Control	1		R311	ERD25FJ470	1.8 k " "	1	SS	
VR901,902,905	EVH7XAF20B54	Variable Resistor, 50kΩ (B), Bass, Treble & BFO Pitch Control	3		R131	ERD25FJ182	82 " "	1	S	
VR903	EVH7XAF20D54	Variable Resistor, 50kΩ (D), Volume Control	1		R203,314	323,411,412, 413,120, 933,148	100 " "	9	S	
VR904	EVH7XAF20A54	Variable Resistor, 50kΩ (A), RF Gain Control	1		R303	ERD25FJ101	150 " "	1	S	
		VARIABLE CAPACITORS			R107,117	ERD25FJ151	232 " "			
CT101,102	RCV1PX10AGS	Trimmer Capacitor	2		R121,126	470	470 " "	3	SS	
CT103,301~303,309	RCV1PX20AGS	Trimmer Capacitor	5		R931	ERD25FJ393	39 k " "	1	SS	
CT801	RCVTCX28	Trimmer Capacitor	1		R128	ERD25FJ561	560 " "	1	S	
CT304,306,307,308,311~314,316~319,321~323	RCV1PX30AGS	Trimmer Capacitor	15		R113,119	125,247, 312,906, 402	680 " "	7	S	
		CERAMIC FILTERS			R122,123	ERD25FJ681	153,155,200, 202,223, 230,242,243, 248,254, 256,258,313, 332,334, 336,344,352, 353,391, 404,639,803, 932,928	1 k " "	27	S
CF101~103	RVFCF10M12FR	Ceramic Filter	3		R143,400	ERD25FJ102	401,951 " "			
CF104	RVFCFU455JT5	Ceramic Filter	1		R137,218	401,951	1.5 k " "	4	S	
		THERMISTER			R137,218	229,237, 291,406, 407,138, 908,941, 957	2.2 k " "	11	S	
TH1	RRT302	Thermister	1		R144,241	ERD25FJ222	322,328,944, 954,958			
		SPEAKER			R144,241	964,685	3.3 k " "	9	S	
SP	EAS12P83GG	Speaker, 12cm (5"), 8Ω	1		R129,956	ERD25FJ332	964,685	3.9 k " "	2	S
		SWITCHES			R129,956	ERD25FJ392	964,685			
S1~6	RSHX029Z	Switch, Selector	1							
S7	RSR4A04Y	" Voltage Selector	1							
S8	Refer to J3	" AC/DC Selector	1							
S9,10	RSH2B18Z	" BFO & Band Width	2							
S11~23	RSH1A20Z	" Cancel/Memory & Channel	13							
S24	RSS42A	" Radio/Phone Selector	1							
S101~106	EVQQ4R13K	" Clock	6							
S107	RSS2B23Z	" Chirp	1							
S108	RSS3B11Z	" Clock Display	1							
S301,302	ESRK68S1	" Band Selector	2							

Ref. No.	Part No.	Part Name & Description			Per Set	Remarks	Ref. No.	Part No.	Part Name & Description			Per Set	Remarks
R118,134, 911,913,	265,392,645, 914,923						R511,519,	617~619,648, 654,659, 662,664,667, 669,672, 674,677,678, 751~754, 756~759,761~ 764,766~ 769,771~774, 776~779, 781,782,606, 607,804, 806~809					
R112,124, 161,208, 262,272	ERD25FJ223 133,158, 226,244, 317,396	22 k 1/4W Carbon			9	S	RRD18XXK104	100 k 1/8W Chip					
R270	ERD25FJ333 ERD25TJ824	33 k "	"		12	S	R684,939	ERG1ANJ151	150 1W Metal Oxide			49	
R106,145, 302,604,	205,253, 922,937	820 k "	"		1	S	R789	RRD18XX821	820 1/8W Chip			2	S
R147,152, 233,252, 335,341~	160,206,207, 260,300,327, 343,901	47 k "	"		8	S	R687,784	RRD18XXK122	1.2 k "			2	
R151,251, 953,963,	309,397, 967	100 k "	"		15	S	R788	RRD18XXK222	2.2 k "			1	
R136,142	ERD25TJ154	150 k "	"		7	S	R801,802	RRD18XXK105	1 M "			2	
R141,149,	393,905,938	ERD25TJ224	220 k "	"	5	S	R526,702	RRD18XXK332	3.3 k "			2	
R394,301	ERD25TJ334	330 k "	"		2	S	R658,661, 698	RRD18XX472	4.7 k "			3	
R159,255,	263,264	ERD25FJ331	330 k "	"	4	S	R699	RRD18XX682	6.8 k "			1	
R238	ERD25TJ684	680 k "	"		1	S	R786,787	RRD18XXK392	3.9 k "			2	
R201,261,	603	ERD25TJ105	1 M "	"	3	S	R711	RRD18XX393	39 k "			1	
R141,149,	345	ERD25FJ682	6.8 k "	"	3	S	R679,681, 682,683,712	RRD18XX473	47 k "			5	
R140,640	ERD25FJ153	15 k "	"		2	S	R691	RRD18XXK154	150 k "			1	
R966	ERD25FJ563	56 k "	"		1	S	R693	RRD18XXK224	220 k "			1	
R130,135,	204,228,339, 340,349,	ERD25FJ470	47 1W Metal Oxide		10	S	R692	RRD18XX394	390 k "			1	
R920	ERD25FJ150	15 1/4W Carbon			1	S	R605	RRD18XX334	330 k "			1	
R156	ERD25FJ821	820 "	"		1	S	R531,601, 641,644, 694,696	RRD18XXK105	1 M "			9	
R157	ERD25FJ122	1.2 k "	"		1	S	R904,924, 926	ERD25TJ155	1.5 M 1/4W Carbon			3	S
R533,534	RRD18XXK101	100 1/8W Chip			2		R927,930	ERD25TJ823	82 k "			2	S
R507	RRD18XXK221	220 "	"		2								
R504,686	RRD18XXK471	470 "	"		1								
R503	RRD18XXK681	680 "	"		1								
R505,532,	647,783	RRD18XXK102	1 k "	"	4								
R521	RRD18XXK152	1.5 k "	"		1								
R697	RRD18XXK153	15 k "	"		1								
R508,512,	513,524,528, 536,541,	RRD18XXK103	10 k "	"	9								
R501,502,	523,609,637, 638,657, 673,676,	RRD18XXK223	22 k "	"	15								
R537,616	RRD18XXK333	33 k "	"		2								
R529	RRD18XXK184	180 k "	"		1								
R506	RRD18XXK474	470 k "	"		1								
R330	ERD25FJ220	22 1/4W Carbon			1	S							
R430	ERD25FJ153	15 k "	"		1	S							

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C111,114	118,121, 122,157, 383,386, 618	ECKD1H102MD	0.001	50V	Ceramic	11		C212,213	632,661,662, 668,901,904,922,951	1	50V	Electrolytic	10	S
C201,634	ECKD1H102ZF	0.001	"	"		2		C162,666	ECEA50Z1	2.2	"	"	2	S
C104,106	108,133,138, 143,144, 224,230, 267,281, 321,323, 250,382, 407,408,	149,204,223, 255,290,253, 310,317,320, 325,329,330, 384,389,406, 335,851~854						C254,603, 902, 912,914, 952	ECEA50Z2R2	0.1	"	"	6	S
C131,135	137,158, 161,147, 378,525, 619	ECKD1H103ZF	0.01	"	"	38		C410,631	ECEA50Z33	0.33	"	"	2	S
C241,246	907	ECKD1H103MD	0.01	"	"	12		C517	ECQE1335KZ	3.3	100V	Polyester	1	
C151,205	206,233, 238,390, 811,920, 291,617	ECKD1H682MD	0.0068	"	"	3		C513	ECUX1H390KC	39 P	50V	Chip	1	
C139,141	146,908,165	ECFTD223MD	0.022	25V	"	12		C514	ECUX1H820KC	82 P	"	"	1	
C203,909	ECFTD473MD	0.047	"	"		5		C507,608	ECUX1H102ZF	0.001	"	"	2	
C228,264	926,257	ECFTD473MD	0.033	"	"	2		C524	ECUX1H222MD	0.0022	"	"	1	
C145	ECKD1H471KB	470 P	50V	"		4		C509,515, 623,624, 667,605, 615	ECUX1H103ZF	0.01	"	"	13	
C326,327	347,403	ECFVD683MD	0.068	25V	Semi-Conductor	1		C519	ECUX1H103MD	0.01	"	"	1	
C306,413	ECKD1H223MD	0.022	50V	Ceramic		4		C502,504, 652,754, 803	ECUX1H223ZF	0.022	"	"	6	
C334,415	ECMS05560KH	56 P	"	Mica		2		C518,602	ECUX1H223MD	0.022	"	"	2	
C243	ECMS05680KH	68 P	"	"		2		C501,680	ECUX1H101KD	100 P	"	"	2	
C234,251	ECMS05820KH	82 P	"	"		1		C678	ECUX1H680KC	68 P	"	"	1	
C759	ECMS05121JH	120 P	"	"		2		C657	ECKD1H681KB	680	"	Ceramic	1	
C236	ECMS05161JH	160 P	"	Mica		1		C653	ECUX1H330KC	33 P	"	Chip	1	
C351	ECMS05131JH	130 P	"	"		1		C621	ECUX1H331KD	330 P	"	"	1	
C411	ECMS05680JH	68 P	"	"		1		C503,609, 611	ECUX1H102MD	0.001	"	"	3	
C364	ECMS05820JH	82 P	"	"		1		C628,670~677	ECUX1H472MD	0.0047	"	"	9	
C352	ECQS2B471JZ	470 P	125V	Styrol		1		C806	ECUX1H220KC	22 P	"	"	1	
C263	ECQS2B561JZ	560 P	"	"		1		C757,758	ECEA0JS102	1000	6.3V	Electrolytic	2	S
C354	ECQS2B821JZ	820 P	"	"		1		C658	ECEA1CS221	220	16V	"	1	S
C356,357	ECQS2B152JZ	1500 P	"	"		2		C751	ECEA1VS330	33	35V	"	1	S
C353	ECQS2B182KZ	1800 P	"	"		1		C659	ECEA1HS470	47	50V	"	1	S
C358	ECQS2B222KZ	2200 P	"	"		1		C322	ECEA50Z3R3	3.3	"	"	1	S
C134,142	202,266, 318,399,	400,940						C523,665, 752,753	C523,665, 752,753	4.7	63V	"	4	S
C156,164	ECEA1CS330	33	16V	Electrolytic		8	S	C409,521, 601	ECEA50ZR22	0.22	50V	"	3	S
C148,152	171,663	ECEA1AS470	47	10V	"	4	S	C607	ECEA50ZR47	0.47	"	"	1	S
C266,664	166,227,229, 923,931	ECEA1AS101	100	"	"	9		C924,927	ECCD1H270KC	27 P	"	"	2	
C512,606	ECEA1HS100	10	50V	"		2	S	C154,163, 906	ECKD1H222MD	0.0022	"	"	3	
C770	ECCD1H331K	330 P	"	Ceramic		1		C244,269, 930	ECCD1H331K	330 P	"	"	3	
								C911	ECKD1H332MD	0.0033	"	"	1	
								C610,934, 937,756	ECQG05224MZ	0.22	"	Polyester	4	
								C655,905, 964	ECEA1AS221	220	10V	Electrolytic	3	S
								C669,921, 932,933	ECEA1ES101	100	25V	"	4	S
								C913,812	ECEA1CS471	470	16V	"	2	S
								C936,938	ECEA1CS102	1000	"	"	2	S

Ref. No.	Part No.	Part Name & Description			Per Set	Remarks	Ref. No.	Part No.	Part Name & Description			Per Set	Remarks							
C939	ECEA1CS222	2200	16V	Electrolytic	1	S	K26	RBN489X	Knob, Tone, BFO Pitch & RF Gain			4								
C953,954	ECQG05473KZ	0.047	50V	Polyester	2		K27	RBS173Z	Knob, Band Selector			1								
C956~959	ECQG05104KZ	0.1	"	"	4		K28	RUS2B	Spring, Preset Button			12								
C807	ECSF1AM225	2.2	10V	Electrolytic	1		K29	XTN23+8C	Screw			2								
C801,802	ECSF1VM104	0.1	35V	"	2		K30	XSN3+8S	Screw			1	S							
CABINET PARTS																				
K1	RYMF6300LBS8	Front Cabinet Ass'y			1		K31	XWA3B	Washer			1	S							
K2	RYFF6300LBS7	Rear Cabinet Ass'y			1		K32	XWG3	Washer			1	S							
K2-1	RJC717A	Battery Terminal, Back-up + Side			1		K33	XTV3+12G	Screw			1	S							
K2-2	RJC322Z	Battery Spring, Back-up - Side			1		K34	XTB3+35BFN	Screw			6	S							
K2-3	RJT462Z	Terminal, Socket			2		ELECTRICAL PARTS													
K2-4	RJC505Z	Battery Spring, - Side			1		E1	RYT1F6300LBS	Button Ass'y, Band Width & BFO			2								
K2-5	RJT398Y	Pipe, Battery Spring			1		E2	RSM1601Z	Meter			1								
K2-6	RJC111Z	Battery Terminal, + Side			2		E3	XAMR43S250A	Pilot Lamp			1								
K2-7	RKX206Z	Handle			1		E4	XBA2C03TR0	Fuse			1								
K2-8	RKX207Z	Spacer, Handle			2		E5	XBE10M96S	Fuse			1								
K2-9	RKX180Z	Arm, Handle			2		E6	RJF7A	Fuse Holder			2								
K2-10	RNW824Y	Nylon Washer, Handle			4		E7	RAD5BT-11	Frequency Display			1								
K2-11	RHM58Z	Washer, Handle			2	S	E8	RSC19610Y	Clock Ass'y			1								
K2-12	XSN3+8S	Screw			2	S	E8-1	RAD1LBU122D	LCD			1								
K2-13	XWA3B	Washer			2	S	E8-2	XAMR87T25	Pilot Lamp			1								
K2-14	XWG3	Washer			2	S	E8-3	RHG5003Z	Zebra			2								
K2-15	XTB3+8BFN	Screw			2	S	E8-4	RHR1074Z	Spacer			1								
K2-16	XWG3F13	Washer			2		E8-5	RDH158Z	Reflection Plate			1								
K2-17	RJC508Z	Battery Spring, - Side			1		E8-6	RGP562Z	Polarization Plate			1								
K2-18	RJC730Z	Battery Terminal, + - Side			1		E9	XBA2C16TR0	Fuse			1								
K2-19	RJF1065Z	Terminal, EXT ANT			2		E10	QTF1054	Fuse Holder			2								
K2-20	XTV3+10G	Screw			1		E11	RJS171Z	Socket (2P), CS2 & CS8			2								
K2-21	XANR2T20	Arrester			1		E12	RJS253Y	Socket (3P), CS3, 10, 12, 14, 17			5								
K2-22	RJT202B	Terminal			1		E13	RJS216Y	Socket (4P), CS11			1								
K2-23	RJT514Z	Terminal			1		E14	RJS217Y	Socket (5P), CS5, 18			2								
K2-24	RJS171Z	Socket, 2 Pin			1		E15	RJS219Y	Socket (7P), CS6, 9, 15			3								
K3	RYN1F6300LBS	Battery Cover Ass'y, Large			1		E16	RJS264Y	Socket (8P), CS7			1								
K4	RYN2F6300LBS	Battery Cover Ass'y, Small			1		E17	EWTXD4S2540B	Rotary Encoder			1								
K5	RYT2F6300LBS	Tuning Knob Ass'y			1		E18	RJP213Z	Plug (2P), CP2			1								
K6	XEARS158HAY	Telescopic Antenna			1		E19	RJP137Z	Plug (3P), CP3 & CP12			2								
K7	RMA151Z	Bracket, Telescopic Antenna			1		E20	RJP171Z	Plug (8P), CP7			1								
K8	RDS3052Z	Spring, Clock Adjust			6		E21	RJP136Z	Plug (5P), CP5			1								
K9	RBC306Z	Button, Sleep & Cancel			2		E22	RJP135Z	Plug (7P), CP6, CP9 & CP15			3								
K10	RBC307Z	" Time Set			3		E23	RJP241Z	Plug (2P), CP8 & CP16			2								
K11	RBC308Z	" Doze			1		E24	RJP133Z	Plug (3P), CP10, CP14, CP17			3								
K12	RBC311Z	" Cancel/Memory			1		E25	RJP107Z	Plug (4P), CP11			1								
K13	RBC312Z	" CH1			1		E26	RJP116Z	Plug (5P), CP18			1								
K14	RBC312Y	" CH2			1		E27	RJT665Z	Terminal, (3P)			2								
K15	RBC312X	" CH3			1		E28	RJT671Z	Terminal, (4P)			1								
K16	RBC312W	" CH4			1		E29	RJT668Z	Terminal, (10P)			2								
K17	RBC312V	" CH5			1		E30	RJT462Z	Terminal, Socket			62								
K18	RBC312U	" CH6			1		E31	ESRK208F25A	Band Switch Shaft Ass'y			1								
K19	RBC312T	" CH7			1		E32	RUV612Z	Cover, Radio/Phone Switch			1								
K20	RBC312S	" CH8			1		E33	RUV613Z	Cover, Clock Display & Chirp			2								
K21	RBC312R	" CH9			1		E34	RUS423Z	Spring, Meter Mtg			1								
K22	RBC312Q	" CH10			1		E35	RDF865Z	Shaft, Band Selector			1								
K23	RBC312P	" CH11			1		E36	RKE350Z	Stay Shaft, P,C Board			1								
K24	RBC312N	" CH12			1		E37	RBC300Z	Button, Radio, Speed & etc.			6								
K25	RBN551Z	Knob, Volume			1		E38	RHR1023V	Stay Shaft, P,C Board			2								

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
E39	RMC228A	Shield Plate	3	
E40	RMC171Y	Shield Plate, IC101	1	
E41	RMW201Z	Bracket, Band Selector	1	
E42	RDG5695Z	Gear, Band Selector	1	
E43	RDG5696Z	Gear, Band Selector	1	
E44	RMC736Z	Shield Plate	1	
E45	RGP671Z	Smoke Panel	1	
E46	RHG1011Z	Rubber, Frequency Display	1	
E47	RUV387Z	Cover, Voltage Selector Switch	1	▲
E48	RUV603Z	Cover, AC/DC IN Jack	1	▲
E49	RME259Z	Bracket, Lamp Holder	1	
E50	XNS8	Nut	6	
E51	XNS9FZ	Nut	1	
E52	XUC2FT	Circlip, Band Selector Shaft	1	S
E53	XTN23+8B	Screw	2	S
E54	XTV3+10G	Screw	1	
E55	XTV3+12G	Screw	21	
E56	XTV3+12GR	Red Screw	13	
E57	XTV3+6F	Screw	41	
E58	XTB3+35BFN	Screw	2	S
E59	XTW3+12QR	Red Screw	2	
E60	XYER3+BG14	Screw	2	
E61	XSN3+5S	Screw	4	S
E62	XWA3B	Washer	4	S
E63	XXAS3K5S	Screw	1	
E64	XNS12D	Nut	1	
E65	YKN3+F12	Screw	2	
ACCESSORIES				
	XEH1A1-P	Earphone	1	S
	RJA20Z	Power Cord, AC	1	
	RQE13Z	Caution Tag	1	▲
PACKING MATERIALS				
	XZB60X50A04	Polyethylene Cover	1	
	XZB10X25A04	Polyethylene Cover	1	
	RPG2352Z	Packing Case	1	
	RPN9358Z	Pad	1	
	RPN3293Z	Pad	1	
	RPN3294Z	Pad	2	
	RPN3336Z	Pad	1	
	RPP401Z	Soft Cover	1	
PRINTED MATERIAL				
	RQX6642Z	Instruction Book	1	